22-2		
Purpose	Adjustment/Setting/Operation data check	
Function (Purpose)	Used to check the total number of misfeed and troubles. (When the number of total jam is considerably great, it is judged as necessary for repair.)	
Section		

Section

### Operation/Procedure

The paper jam, trouble counter value is displayed.

MACHINE JAM	Machine JAM counter
RSPF JAM	RSPF JAM counter
TROUBLE	Trouble counter

22-3	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to check misfeed positions and the misfeed count of each position.  * Presumption of the faulty point by this data is possible.
Section	

#### Operation/Procedure

The paper jam and misfeed history is displayed from the latest one up to 50 items. (The old ones are deleted sequentially.)

22-4	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to check the trouble (self diag) his-
	tory.
Section	
o	

#### Operation/Procedure

The trouble history is displayed from the latest one up to 30 items. (The old ones are deleted sequentially.)

22-5	
Purpose	Others
Function (Purpose)	Used to check the ROM version of each unit (section).
Section	Firmware

### Operation/Procedure

The ROM version of the installed unit in each section is displayed. When there is any trouble in the software, use this simulation to check the ROM version, and upgrade the version if necessary.

### 18cpm/20cpm/23cpm/31cpm(G) machine

S/N	Serial No. (The codes for November and December are "X" and "Y" respectively.)
ICU (MAIN)	ICU (Main section)
ICU (BOOT)	ICU (Boot section)
ICU (SUB)	ICU (Sub section) (ARM9)
LANGUAGE	Language support data version
GRAPHIC	Graphic data for LCD
PCL (MAIN)	PCL (Main section)
PCL (PROFILE)	PCL (Color profile)
PCU	PCU
SCU	SCU
FAX1 (MAIN)	FAX 1-Line (Main section)
DESK	Desk unit
FINISHER	Finisher
NIC	NIC
POWER-CON	Power controller

E-MANUAL	Operation manual (HDD storage) (except 20cpm machine)
WATER MARK	Watermark (HDD storage)
ESCP	ESCP font ROM
PDL	PDL font ROM
PCI	PCI

### 26cpm/36cpm/31cpm(A) machine

S/N	Serial No. (The codes for November and December are "X" and "Y" respectively.)
UICONTENTS	Content data for display
ICU (MAIN)	ICU (Main section)
ICU (BOOT)	ICU (Boot section)
ICU (SUB)	ICU (Sub section) (ARM9)
LANGUAGE	Language support data version
GRAPHIC	Graphic data for LCD
PCL (MAIN)	PCL (Main section)
PCL (PROFILE)	PCL (Color profile)
PCU	PCU
SCU	SCU
FAX1 (MAIN)	FAX 1-Line (Main section)
DESK	Desk unit
LCC	LCC
FINISHER	Finisher
PUNCH	Punch module
NIC	NIC
POWER-CON	Power controller
E-MANUAL	Operation manual (HDD storage)
WATER MARK	Watermark (HDD storage)
ESCP	ESCP font ROM
ACRE (MAIN)	Enhanced compression kit (Main section)
ACRE (DATA)	Enhanced compression kit (Data section)
PCI	PCI

22-6	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to output the setting/adjustment data (simulation, FAX soft switch, counter), the firmware version, and the counter list.
Section	

### Operation/Procedure

- \* When installing or servicing, this simulation is executed to print the adjustment data and set data for use in the next servicing. (Memory trouble, PWB replacement, etc.)
- 1) Select the print list mode with 10-key.

Item/Display	Print list mode	Print content
DATA PATTERN	1	Firmware version, counter data, etc.
	2	SIM50-24 data
	3	Data related to the process control
		DATA PATTERN 1  2

 Press [EXECUTE] key to start printing the list selected in step 1).

22-8	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to check the number of operations (counter value) of the finisher, the RSPF, and the scan (reading) unit.
Section	

SPF	Document feed quantity
	(The number of sheets of discharged documents)
SCAN	Number of times of scan
STAPLER	Staple counter
PUNCHER	Puncher counter
STAMP	Stamp counter
COVER	Document cover open/close counter
HP_ON	Number of scanner HP detection
OC LAMP TIME	Total lighting time of the scanner lamp
	(* hour * minutes)
SADDLE STAPLER	Saddle staple counter
	(26cpm/36cpm/31cpm(A) machine only)
SADDLE V FOLD	Saddle finisher V fold counter
	(26cpm/36cpm/31cpm(A) machine only)

22-9			
Purpose	Adjustment/Setting/Operation data check		
Function (Purpose)	Used to check the number of use (print quantity) of each paper feed section.		
Section	Paper feed, ADU, LCC		
O			

### Operation/Procedure

The counter values related to paper feed are displayed.

TRAY1	Paper feed counter (Paper feed tray 1)	
TRAY2	Paper feed counter (Paper feed tray 2)	
TRAY3	Paper feed counter (Paper feed tray 3)	
TRAY4	Paper feed counter (Paper feed tray 4)	
MFT TOTAL	Manual paper feed counter (Total)	
MFT HEAVY	Manual paper feed counter (Heavy paper)	
MFT OHP	Manual paper feed counter (OHP)	
MFT ENV	Manual paper feed counter (Envelope)	
ADU	ADU paper transport counter (Paper reverse section)	
LCC	Side LCC paper feed counter (LCC)	
	(26cpm/36cpm/31cpm(A) machine only)	

22-10	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to check the system configuration (option, internal hardware).
Section	

### Operation/Procedure

The system configuration is displayed.

(The model names of the installed devices and options are displayed.)  $\,$ 

MX-B10U   MX-2010U   MX-2010U   MX-2610N   MX-3111U   MX-3110N   MX-3610N   MX-3610N   MX-3610N   MX-B10U   MX-B10U   MX-B11U   MX-B110N   MX-B110N   MX-B110N   MX-B110N   MX-B110N   MX-B12   Stand/1x500 sheet paper drawer   MX-DE13   Stand/2x500 sheet paper drawer   MX-DE14   Stand/2x500 sheet paper drawer   MX-PN11C   MX-PN11D   MX-PN11D   MX-PN11D   MX-PN11D   MX-PNX5D   MX-PX11   Facisimile expansion kit   PRINTER   MX-PS14   Printer expansion kit   PS expansion kit   YPS expansion kit   YPS expansion kit   YPS expansion kit   SECURITY   MX-FR35U   Data security kit (commercial version)   MX-FR35U			T	
MX-2310U   MX-2610N   MX-3111U   MX-3110N   MX-3610N	MACHINE	MX-1810U	Main unit	
MX-2610N   MX-3111U   MX-3111U   MX-3111U   MX-3110N   MX-3610N				
MX-3111U   MX-3110N   MX-3610N				
MX-3110N MX-3610N  SPF MX-RP12 STANDARD  STAMP AR-SU1 Finish stamp  DESK MX-DE13 Stand/1x500 sheet paper drawer MX-DE14 Stand/3x500 sheet paper drawer MX-DE14 Stand/3x500 sheet paper drawer MX-PD14 LCC MX-LC11 PUNCHER MX-PN11A MX-PN11B MX-PN11C MX-PN11D MX-PNX5A MX-PNX5A MX-PNX5D FINISHER MX-FN10 Saddle stitch finisher (1K) FAX1 MX-FN10 Saddle stitch finisher (1K) FAX1 MX-FN10 FAX1 Facsimile expansion kit PRINTER MX-PB14 PPINTER MX-PS14 PS expansion kit SECURITY MX-FR30U Data security kit (commercial version) MX-FR30U Data security kit (commercial vers				
MX-3610N		MX-3111U		
SPF		MX-3110N		
STAMP AR-SU1 Finish stamp  DESK MX-DE12 Stand/1x500 sheet paper drawer  MX-DE13 Stand/2x500 sheet paper drawer  MX-DE14 Stand/2x500 sheet paper drawer  MX-DE14 Stand/2x500 sheet paper drawer  LCC MX-LC11 Large capacity tray (Side LCC)  PUNCHER MX-PN11A Punch unit  MX-PN11B MX-PN11D MX-PNX5D  MX-PNX5D MX-PNX5D  FINISHER MX-FN17 Inner finisher  MX-PNX5D MX-PNX5D  FINISHER MX-FN17 Inner finisher (1K)  FAX1 MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN11 Facsimile expansion kit  PRINTER MX-PB14 Printer expansion kit  PS MX-PK11 PS expansion kit  XPS MX-PVX1 XPS expansion kit  SECURITY MX-FR30U Data security kit (commercial version)  MX-FR30U Data security kit (commercial version)  MX-FR34U Data security kit (commerc		MX-3610N		
STAMP	SPF	MX-RP12	Reversing single pass feeder	
DESK		STANDARD		
MX-DE13 Stand/2x500 sheet paper drawer  MX-DE14 Stand/3x500 sheet paper drawer  MX-DE14 Large capacity tray (Side LCC)  PUNCHER MX-PN11A MX-PN11B MX-PN11C MX-PN11D MX-PNX5A MX-PNX5B MX-PNX5C MX-PNX5D  FINISHER MX-FN17 Inner finisher  MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN11 Facsimile expansion kit  PRINTER MX-PB14 Printer expansion kit (PCL)  PS MX-PK11 PS expansion kit  XPS MX-PUX1 XPS expansion kit  XPS MX-PUX1 XPS expansion kit  XPS MX-FR30U Data security kit (commercial version)  MX-FR30U Data security kit (commercial version)  MX-FR34U Data security kit (commerci	STAMP	AR-SU1	Finish stamp	
MX-DE14 Stand/3x500 sheet paper drawer  LCC MX-LC11 Large capacity tray (Side LCC)  PUNCHER MX-PN11A MX-PN11B MX-PN11C MX-PN11D MX-PN1D MX-PNX5A MX-PNX5D MX-PNX5D  FINISHER MX-FN17 Inner finisher (1K)  FAX1 MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN10 Facsimile expansion kit  PRINTER MX-PB14 Printer expansion kit (PCL)  PS MX-PK11 PS expansion kit  XPS MX-PUX1 XPS expansion kit  XPS MX-PUX1 XPS expansion kit (commercial version)  MX-FR30U Data security kit (commercial version)  MX-FR34U Data security kit (commercial version	DESK	MX-DE12	Stand/1x500 sheet paper drawer	
LCC MX-LC11 Large capacity tray (Side LCC)  PUNCHER MX-PN11A MX-PN11B MX-PN11C MX-PN11D MX-PNX5A MX-PNX5B MX-PNX5B MX-PNX5D  FINISHER MX-FN17 Inner finisher MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FN10 Facsimile expansion kit (PCL)  PS MX-PNX5D Printer expansion kit (PCL)  PS MX-PS14 Printer expansion kit (PCL)  PS MX-PX11 PS expansion kit  XPS MX-PUX1 XPS expansion kit  XPS MX-PUX1 XPS expansion kit  SECURITY MX-FR25U Data security kit (commercial version)  MX-FR30U Data security kit (commercial version)  MX-FR34U Data sec		MX-DE13	Stand/2x500 sheet paper drawer	
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PUNCHER    MX-PN11A   MX-PN11B   MX-PN11C   MX-PN11D   MX-PNX5A   MX-PNX5B   MX-PNX5C   MX-PNX5D   MX-PNX5D   MX-PNX5D   MX-PNX5D   MX-FN10   Saddle stitch finisher (1K)   FAX1   MX-FX11   Facsimile expansion kit   PRINTER   MX-PS14   Printer expansion kit (PCL)   PS   MX-PX11   PS expansion kit   PS   MX-FR30U   Data security kit (commercial version)   MX-FR30U   Data security kit (commercial version)   MX-FR34U   Data security kit (commercial version)   SDRAM (SYS)   SDRAM capacity   SDRAM capacit	LCC	MX-LC11		
MX-PN11B   MX-PN11C   MX-PN11D   MX-PNX5A   MX-PNX5B   MX-PNX5D   MX-PNX5D   MX-PNX5D   MX-PNX5D   MX-FN17   Inner finisher   MX-FN10   Saddle stitch finisher (1K)   FAX1   MX-FX11   Facsimile expansion kit   PRINTER   MX-PB14   Printer expansion kit (PCL)   PS   MX-PK11   PS expansion kit   XPS   MX-PK11   PS expansion kit   XPS   MX-PUX1   XPS expansion kit   XPS   MX-PUX1   XPS expansion kit   ACM-FR30U   Data security kit (commercial version)   MX-FR34U   Data security kit (commercial version)   MX-FR34U   Data security kit (commercial version)   AIM   MX-AMX1   Application integration module   SDRAM (SYS)   *****MB   SDRAM capacity   SDRAM (CU)   *****MB   SDRAM capacity   SDRAM (CU)   *****MB   SDRAM capacity   SDRAM capacity   NIC   STANDARD   NIC   STANDARD   NIC   BARCODE   MX-PF10   Bar code font   INTERNET-FAX   MX-FWX1   Internet Fax expansion kit   ACM(*)   MX-AMX2   Application communication module   EAM(*)   MX-AMX3   External account module   EAM(*)   MX-AMX3   External account module   EAM(*)   WEB   MX-AM10   Web browsing expansion kit   ACRE   MX-EB11   Enhanced compression kit (ACRE)   MIRRORING   MX-EB12   Mirroring kit   PCI generating unit				
MX-PN11C   MX-PN11D   MX-PNX5A   MX-PNX5B   MX-PNX5C   MX-PNX5D   MX-PNX5D				
MX-PN11D MX-PNX5A MX-PNX5C MX-PNX5C MX-PNX5D  FINISHER  MX-FN17 Inner finisher MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FX11 Facsimile expansion kit  PRINTER MX-PB14 Printer expansion kit (PCL)  PS MX-PK11 PS expansion kit  XPS MX-PUX1 XPS expansion kit  SECURITY  MX-FR25U Data security kit (commercial version) MX-FR30U Data security kit (commercial version)  MX-FR34U Data security kit (commercial version)  MX-FR34U Data security kit (commercial version)  AIM MX-AMX1 Application integration module  SDRAM (SYS)  SDRAM (ICU)  *****MB SDRAM capacity  HDD *****MB SDRAM capacity  BDRAM Capacity  NIC STANDARD NIC  BARCODE MX-PF10 Bar code font  INTERNET-FAX MX-FWX1 Internet Fax expansion kit  ACM(*) MX-AMX2 Application communication module  EAM(*) MX-AMX3 External account module  WEB MX-AM10 Web browsing expansion kit  ACRE MX-EB11 Enhanced compression kit (ACRE)  MIRRORING MX-EB12 Mirroring kit  PCI generating unit				
MX-PNX5A   MX-PNX5C   MX-PNX5D				
MX-PNX5B MX-PNX5C MX-PNX5D  FINISHER  MX-FN17  Inner finisher MX-FN10  Saddle stitch finisher (1K)  FAX1  MX-FX11  Facsimile expansion kit  PRINTER  MX-PB14  Printer expansion kit (PCL)  PS  MX-PK11  XPS  MX-PK11  XPS expansion kit  SECURITY  MX-FR25U  Data security kit (commercial version)  MX-FR30U  Data security kit (commercial version)  MX-FR34U  Data security kit (commercial version)  MX-FR34U  SDRAM (SYS)  SDRAM (ICU)  *****MB  SDRAM capacity  SDRAM (ICU)  *****MB  SDRAM capacity  SDRAM (ICU)  *****MB  SDRAM capacity  SD  SDRAM (ICU)  STANDARD  NIC  BARCODE  MX-PT10  Bar code font  INTERNET-FAX  MX-FWX1  Internet Fax expansion kit  ACM(*)  MX-AMX2  Application communication module  EAM(*)  MX-AMX3  External account module  WEB  BROWSING  ACRE  MX-EB11  Enhanced compression kit (ACRE)  MIRRORING  MX-EB12  Mirroring kit  PCI generating unit				
MX-PNX5C   MX-PNX5D				
MX-PNX5D				
FINISHER				
MX-FN10 Saddle stitch finisher (1K)  FAX1 MX-FX11 Facsimile expansion kit  PRINTER MX-PB14 Printer expansion kit (PCL)  PS MX-PK11 PS expansion kit  XPS MX-PUX1 XPS expansion kit  SECURITY MX-FR25U Data security kit (commercial version)  MX-FR30U Data security kit (commercial version)  MX-FR34U Data security kit (commercial version)  AIM MX-AMX1 Application integration module  SDRAM (SYS) *****MB SDRAM capacity  SDRAM (ICU) *****MB SDRAM capacity  HDD *****MB SDRAM capacity  SD *****MB SD Card capacity  NIC STANDARD NIC  BARCODE MX-PF10 Bar code font  INTERNET-FAX MX-FWX1 Internet Fax expansion kit  ACM(*) MX-AMX2 Application communication module  EAM(*) MX-AMX3 External account module  WEB BROWSING  ACRE MX-EB11 Enhanced compression kit (ACRE)  MIRRORING MX-EB12 Mirroring kit  PCI generating unit	EINIICHED		Inner finisher	
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PS         MX-PK11         PS expansion kit           XPS         MX-PUX1         XPS expansion kit           SECURITY         MX-FR25U         Data security kit (commercial version)           MX-FR30U         Data security kit (commercial version)           MX-FR34U         Data security kit (commercial version)           AIM         MX-AMX1         Application integration module           SDRAM (SYS)         ******MB         SDRAM capacity           SDRAM (ICU)         ******MB         SDRAM capacity           HDD         ******MB         SD Card capacity           SD         ******MB         SD Card capacity           NIC         STANDARD         NIC           BARCODE         MX-PF10         Bar code font           INTERNET-FAX         MX-FWX1         Internet Fax expansion kit           ACM(*)         MX-AMX2         Application communication module           EAM(*)         MX-AMX3         External account module           WEB         MX-AM10         Web browsing expansion kit           BROWSING         MX-EB11         Enhanced compression kit (ACRE)           MIRRORING         MX-EB12         Mirroring kit           PCI         generating unit			·	
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MX-FR34U Data security kit (commercial version)  AIM MX-AMX1 Application integration module  SDRAM (SYS) *****MB SDRAM capacity  SDRAM (ICU) *****MB SDRAM capacity  HDD *****MB Hard disk capacity  SD *****MB SD Card capacity  NIC STANDARD NIC  BARCODE MX-PF10 Bar code font  INTERNET-FAX MX-FWX1 Internet Fax expansion kit  ACM(*) MX-AMX2 Application communication module  EAM(*) MX-AMX3 External account module  WEB MX-AM10 Web browsing expansion kit  BROWSING  ACRE MX-EB11 Enhanced compression kit (ACRE)  MIRRORING MX-EB12 Mirroring kit  PCI generating unit	SECURITY			
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SDRAM (SYS)  SDRAM (ICU)  SDRAM (ICU)  *****MB  SDRAM capacity  HDD  *****MB  SDRAM capacity  SD  SDRAM capacity  SD  SDRAM capacity  SD  SD  SDRAM capacity  SD  SD  SD  SD  SD  SD  SD  SD  SD  S			* ` ` '	
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ACM(*) MX-AMX2 Application communication module  EAM(*) MX-AMX3 External account module  WEB MX-AM10 Web browsing expansion kit  BROWSING  ACRE MX-EB11 Enhanced compression kit (ACRE)  MIRRORING MX-EB12 Mirroring kit  PCI NOTE PCI generating unit	INTERNET-FAX	MX-FWX1	Internet Fax expansion kit	
WEB BROWSING MX-AM10 Web browsing expansion kit BROWSING ACRE MX-EB11 Enhanced compression kit (ACRE) MIRRORING MX-EB12 Mirroring kit PCI NOTE PCI generating unit	ACM(*)	MX-AMX2		
BROWSING  ACRE MX-EB11 Enhanced compression kit (ACRE)  MIRRORING MX-EB12 Mirroring kit  PCI NOTE PCI generating unit	EAM(*)	MX-AMX3	External account module	
BROWSING         MX-EB11         Enhanced compression kit (ACRE)           MIRRORING         MX-EB12         Mirroring kit           PCI         NOTE         PCI generating unit	WEB	MX-AM10	Web browsing expansion kit	
MIRRORING MX-EB12 Mirroring kit PCI NOTE PCI generating unit	BROWSING			
MIRRORING MX-EB12 Mirroring kit PCI NOTE PCI generating unit	ACRE	MX-EB11	Enhanced compression kit (ACRE)	
	MIRRORING	MX-EB12		
	PCI	NOTE	PCI generating unit	
		CONNECT	1	

(\*) Displayed only in the OSA models.

22-11			
Purpose	Adjustment/Setting/Operation data check		
Function (Purpose)  Used to check the use frequency receive) of FAX.  (Only when FAX is installed)			
Section	FAX		

### Operation/Procedure

The values of the FAX send counter and the FAX receive counter are displayed.

FAX OUTPUT	FAX print quantity counter (for line 1)
FAX SEND	FAX send counter
FAX RECEIVED	FAX receive counter
SEND IMAGES	FAX send quantity counter (for line 1)
SEND TIME	FAX send time
RECEIVED TIME	FAX receive time

Purpose Adjustment/Setting/Operation data check

Function (Purpose) Used to check the RSPF misfeed positions and the number of misfeed at each position. (When the number of misfeed is considerably great, it can be judged as necessary for repair.)

Section RSPF

### Operation/Procedure

The paper jam and misfeed history is displayed from the latest one up to 50 items. (The old ones are deleted sequentially.)

22-13	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to check the operating time of the process section (OPC drum, DV unit, toner cartridge) and the fusing unit
Section	Process

### Operation/Procedure

The number of prints and the number of rotations in the process section are displayed.

### 18cpm/20cpm/23cpm/26cpm/31cpm machine

Item/Display Content		Print counter	RPM	Number of use days	Life meter	Number of remaining days
MAINTENANCE ALL	Maintenance counter (Total) (Counter)	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
MAINTENANCE COL	Maintenance counter (Color)	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
FUSING BELT	Fusing belt (23cpm/26cpm/31cpm machine only)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
HEAT ROLLER	Heat roller (20cpm model)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
FUSING ROLLER	Fusing roller	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
PRESSURE ROLLER	Fusing pressure roller	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
SEPARATE PAWL	Fusing separation pawl	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
SEPARATE PLATE	Fusing separation plate	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
CLEANING ROLLER	Fusing cleaning roller	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TC1 BELT	Primary transfer belt	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TRANSFER BLADE	Transfer cleaning blade	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
PTC	PTC	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TC2 BELT	Secondary transfer belt	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
PS PAPER	Paper dust cleaner	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
OZONE FILTER	Ozone filter	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (K)	DV unit (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (C)	DV unit (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (M)	DV unit (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (Y)	DV unit (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (K)	OPC drum unit (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (C)	OPC drum unit (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (M)	OPC drum unit (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (Y)	OPC drum unit (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (K)	Main charger (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (C)	Main charger (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (M)	Main charger (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (Y)	Main charger (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (K)	OPC drum cleaning blade K	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (C)	OPC drum cleaning blade C	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (M)	OPC drum cleaning blade M	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (Y)	OPC drum cleaning blade Y	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TONER CTRG (K)	Toner cartridge (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed
TONER CTRG (C)	Toner cartridge (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed
TONER CTRG (M)	Toner cartridge (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed
TONER CTRG (Y)	Toner cartridge (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed

### 36cpm machine

ltem/Display	Content	Print counter	RPM	Number of use days	Life meter	Number of remaining days
MAINTENANCE ALL	Maintenance counter (Total) (Counter)	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
MAINTENANCE COL	Maintenance counter (Color)	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
FUSING BELT	Fusing belt	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
FUSING ROLLER	Fusing roller	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
PRESSURE ROLLER	Fusing pressure roller	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
SEPARATE PAWL	Fusing separation pawl	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
SEPARATE PLATE	Fusing separation plate	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
FUSING WEB UNIT	Fusing web unit	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
FUSING WEB SEND	Fusing web cleaning send counter	0 - 65535	Not displayed	Not displayed	Not displayed	Not displayed
TC1 BELT	Primary transfer belt	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TRANSFER BLADE	Transfer cleaning blade	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
PTC	PTC	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TC2 BELT	Secondary transfer belt	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
PS PAPER	Paper dust cleaner	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
OZONE FILTER	Ozone filter	Max. 8	Not displayed	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (K)	DV unit (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (C)	DV unit (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (M)	DV unit (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DEVE CTRG (Y)	DV unit (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (K)	OPC drum unit (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (C)	OPC drum unit (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (M)	OPC drum unit (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM CTRG (Y)	OPC drum unit (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (K)	Main charger (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (C)	Main charger (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (M)	Main charger (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
MAIN CHARGER (Y)	Main charger (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (K)	OPC drum cleaning blade K	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (C)	OPC drum cleaning blade C	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (M)	OPC drum cleaning blade M	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
DRUM BLADE (Y)	OPC drum cleaning blade Y	Max. 8	Max. 8	0 - 999	0 - 100 (%)	0 - 365
TONER CTRG (K)	Toner cartridge (K)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed
TONER CTRG (C)	Toner cartridge (C)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed
TONER CTRG (M)	Toner cartridge (M)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed
TONER CTRG (Y)	Toner cartridge (Y)	Max. 8	Max. 8	0 - 999	0 - 100 (%)	Not displayed

22-14	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to display the use status of the toner cartridge.
Section	Process
On a notice /Dua a a desur	

### Operation/Procedure

The status of the toner cartridge is displayed.

Display item	Content	Accumulated No. of installed cartridges (Unit)	Accumulated No. of near near end (Unit) NN END	Accumulated No. of end (Unit) END	Remaining quantity (Unit: %) RESIDUAL
TONER (K)	Toner cartridge use counter (K)	0 - 255	0 - 255	0 - 255	0-25%
TONER (C)	Toner cartridge use counter (C)				25-50%
TONER (M)	Toner cartridge use counter (M)				50-75%
TONER (Y)	Toner cartridge use counter (Y)				75-100%

22-18	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to display the user data delete history.
Section	

The date and time of the user data delete are displayed.

Display item		Content
Item name	Date	Content
START	Year/month/day/hour/min.	Delete history (Date and time of operation start)
END	Year/month/day/hour/min.	Delete history (Date and time of operation end)

22-19	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to check the values of the counters related to the scan - image send.
Section	

### Operation/Procedure

Used to display the counter value related to the network scanner Change the display with scroll key.

Item/Display		Content
Network	NET SCN	Network scanner document read quantity
scanner	ORG_B/W	counter (B/W scan job)
	NET SCN	Network scanner document read quantity
	ORG_CL	counter (Color scan job)
	NET SCN	Network scanner document read quantity
	ORG_2CL	counter (2-Color scan job)
	NET SCN	Network scanner document read quantity
	ORG_SGL	counter (Single-color scan job)
Internet FAX	INTERNET FAX OUTPUT	Number of internet FAX output
	INTERNET FAX SEND OUTPUT	Number of internet FAX sending page
	INTERNET FAX RECEIVE	Number of internet FAX receive
	INTERNET FAX SEND	Number of internet FAX send
E-Mail	MAIL	Number of times of E-MAIL send
	COUNTER	
FTP	FTP COUNTER	Number of FTP send
Other	SMB SEND	Number of SMB send
	USB CNT	Number of times of USB storage
	TRIAL	Trial mode counter
	MODE_B&C	(B/W & COLOR scan job)
	SCAN TO HDD B/W	SCAN TO HDD record quantity (B/W)
	SCAN TO	SCAN TO HDD record quantity
	HDD_CL	(COLOR)
	SCAN TO	SCAN TO HDD record quantity
	HDD_2CL	(2-COLOR)
	SCAN TO	SCAN TO HDD record quantity
	HDD_SGL	(SINGLE color)

22-40	
Purpose	Error contents display
Function (Purpose)	Used to display the error code list and the contents.
Section	

### Operation/Procedure

1) Select the main error code.

The sub error code and the contents are displayed.

22-90	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to output the various set data lists.
Section	

### Operation/Procedure

- 1) Change the display with scroll key.
- 2) Select the print target with the keys on the touch panel.
- 3) Press [EXECUTE] key to start self print of the list.

All setting list (*)	ALL CUSTOM SETTING LIST
Printer test page	PCL SYMBOL SET LIST
	PCL INTERNAL FONT LIST
	PCL EXTENDED FONT LIST
	PS FONT LIST
	PS KANJI FONT LIST (Japan)
	PS EXTENDED FONT LIST
	NIC PAGE
Address registration	INDIVIDUAL LIST
list (*)	GROUP LIST
	PROGRAM LIST (Output Disable)
	MEMORY BOX LIST
	ALL SENDING ADDRESS LIST
Document filing list (*)	DOCUMENT FILING FOLDER LIST
System setting list	ADMIN. SETTINGS LIST (COPY)
	ADMIN. SETTINGS LIST (PRINT)
	ADMIN. SETTINGS LIST (IMAGE SEND)
	ADMIN. SETTINGS LIST (DOC FILING)
	ADMIN. SETTINGS LIST (SECURITY)
	ADMIN. SETTINGS LIST (COMMON)
	ALL ADMINISTRATOR SETTINGS LIST
Receive rejection	ANTI JUNK FAX NUMBER LIST
number table	
Receive rejection/	ANTI JUNK MAIL/DOMAIN NAME LIST
allow address	
domain table	
To E-mail	INBOUND ROUTING LIST
Transfer table list	
To administrator	DOCUMENT ADMIN LIST
Transfer list	WED OFFICE LIGH
Web setting list	WEB SETTING LIST
Meta data set list	METADATA SET LIST

\* When the data list print of system setting is inhibition in DSK model, this setting is invalid.



23-2	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to output the trouble history list of paper jam and misfeed. (If the number of troubles of misfeed is considerably great, the judgment is made that repair is required.)
Section	

### Operation/Procedure

Press [EXECUTE] key to execute print.

The trouble history of paper jams and misfeed is printed.

23-80	
Purpose	Operation test/check
Function (Purpose)	Used to check the operation of paper feed and paper transport in the paper feed section and the paper transport section. Used to output the list of the operation status of the sensor and the detectors in the paper feed section and the paper transport section.
Section	Paper feed, Paper transport
Operation/Procedure	

When [EXECUTE] key is pressed, the timing list of paper feed and paper transport is outputted.

Used to print the operations timing list of the sensors and detectors in the paper feed and transport section.

The timing list of paper feed and paper transport operations of the latest job (copy or print) on the final paper is printed.

Since the paper feed and paper transport routes differ depending on the used paper feed tray and the print operation mode, the sensor and the detectors and the operation timing also differ.

SECTION	Operation content (Trigger name - Detection operation or load operation name)
STANDARD	Reference value (ms)
CURRENT (*1)	Operation timing (ms) of the latest job on the final paper
PREVIOUS (*1)	Operation timing (ms) of the second latest job on the final paper
MAXIMUM (*1)	Max. operation timing (ms) of all the jobs
MINIMUM (*1)	Min. operation timing (ms) of all the jobs

<sup>\*1:</sup> The value without unit on the left side of each item on the list has no relation to the operation timing. It is not used in the market.

24-1	
Purpose	Data clear
Function (Purpose)	Used to clear the jam counter, and the trouble counter. (After completion of maintenance, clear the counters.)
Section	

#### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- Press [EXECUTE] key.
- Press [YES] key.

The target counter is cleared.

MACHINE	Machine JAM counter
SPF	RSPF JAM counter
TROUBLE	Trouble counter

24-2	
Purpose	Data clear
Function (Purpose)	Used to clear the number of use (the num-
	ber of prints) of each paper feed section.
Section	

#### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

TRAY1	Tray 1 paper feed counter
TRAY2	Tray 2 paper feed counter
TRAY3	Tray 3 paper feed counter
TRAY4	Tray 4 paper feed counter
MFT TOTAL	Manual paper feed counter (Total)
MFT HEAVY	Manual paper feed counter (Heavy paper)
MFT OHP	Manual paper feed counter (OHP)
MFT ENV	Manual paper feed counter (Envelope)
LCC	LCC paper feed counter (LCC)
ADU	ADU paper feed counter

24-3	
Purpose	Data clear
Function (Purpose)	Used to clear the finisher, RSPF, and the scan (reading) unit counter.
Section	

### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

SPF	RSPF document feed counter	
	(No. of discharged sheets)	
SCAN	Scan counter	
STAPLER	Staple counter	
PUNCHER	Puncher counter	
STAMP	Stamp counter	
SADDLE STAPLER	Saddle staple counter	
SADDLE V FOLD	Saddle finisher V fold counter	
COVER	Document cover open/close counter	
HP_ON	Number of scanner HP detection	
OC LAMP TIME	Total lighting time of the scanner lamp	

24-4		
Purpose	Data clear	
Function (Purpose)	Used to clear the maintenance counter, the printer counters of the transport unit and the fusing unit. (After completion of maintenance, clear the counters.)	
Section		

### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

### 18cpm/20cpm/23cpm/26cpm/31cpm machine

	n/Display	Content
Maintenance	_	Maintenance counter (Total) (Counter)
	ALL	Maintenance counter (Total)
		(Number of use days)
	MAINTENANCE	Maintenance counter (Color) (Counter
	COL	Maintenance counter (Color)
F	FUOING DELT	(Number of use days)
Fusing	FUSING BELT	Fusing belt (Counter)
	(23cpm/26cpm/ 31cpm machine	Fusing belt (Number of use days)
	only)	Fusing belt
	HEAT ROLLER	(Accumulated number of rotations)
	(20cpm model)	Heat roller (Counter)
	(20cpiii iiiodei)	Heat roller (Number of use days) Heat roller
		(Accumulated number of rotations)
	FUSING	Fusing roller (Counter)
	ROLLER	Fusing roller (Number of use days)
	11022211	Fusing roller
		(Accumulated number of rotations)
	PRESS	Pressure roller (Counter)
	ROLLER	Pressure roller (Number of use days)
		Pressure roller
		(Accumulated number of rotations)
Separation	SEPARATE	Separation pawl (Counter)
- 1	PAWL	Separation pawl (Number of use days)
		Separation pawl
		(Accumulated number of rotations)
	SEPARATE	Separation plate (Counter)
	PLATE	Separation plate (Number of use days
		Separation plate
		(Accumulated number of rotations)
	CLEAN	Cleaning roller (Counter)
	ROLLER	Cleaning roller (Number of use days)
		Cleaning roller
		(Accumulated number of rotations)
Transfer	TC1 BELT	Primary transfer belt (Counter)
		Primary transfer belt
		(Number of use days)
		Primary transfer belt
		(Accumulated number of rotations)
	TRANS BLADE	Transfer blade (Counter)
		Transfer blade (Number of use days)
		Transfer blade
	TOO DELT	(Accumulated number of rotations)
	TC2 BELT	Secondary transfer belt (Counter)
		Secondary transfer belt
		(Number of use days)
		Secondary transfer belt (Accumulated number of rotations)
	PTC	PTC counter (Counter)
		PTC counter (Counter)  PTC counter (Number of use days)
		PTC counter (Number of use days)
		(Accumulated number of rotations)
Drum	DRUM CTRG K	Drum cartridge (K) (Counter)
214111	DI COM OTRO R	Drum cartridge (K) (Number of use
		days)
		Drum cartridge (K)
		(Accumulated number of rotations)
	DRUM CTRG C	Drum cartridge (C) (Counter)
		Drum cartridge (C)
		(Number of use days)
		Drum cartridge (C)
		(Accumulated number of rotations)
	DRUM CTRG M	Drum cartridge (M) (Counter)
		Drum cartridge (M)
		(Number of use days)
		Drum cartridge (M)
		(Accumulated number of rotations)
	DRUM CTRG Y	Drum cartridge (Y) (Counter)
		Drum cartridge (Y)
	1	(Number of use days)
		Drum cartridge (Y)

Item	n/Display	Content
Main	MAIN	Main charger (K) (Counter)
charger	CHARGER K	Main charger (K) (Number of use days)
		Main charger (K)
		(Accumulated number of rotations)
	MAIN	Main charger (C) (Counter)
	CHARGER C	Main charger (C) (Number of use days)
		Main charger (C)
		(Accumulated number of rotations)
	MAIN	Main charger (M) (Counter)
	CHARGER M	Main charger (M) (Number of use days)
		Main charger (M)
		(Accumulated number of rotations)
	MAIN	Main charger (Y) (Counter)
	CHARGER Y	Main charger (Y) (Number of use days)
		Main charger (Y)
		(Accumulated number of rotations)
Drum blade	DRUM BLADE	Drum blade K (Counter)
	К	Drum blade K (Number of use days)
		Drum blade K
		(Accumulated number of rotations)
	DRUM BLADE	Drum blade C (Counter)
	С	Drum blade C (Number of use days)
		Drum blade C
	DDUM DI ADE	(Accumulated number of rotations)
	DRUM BLADE M	Drum blade M (Counter)
	IVI	Drum blade M (Number of use days)
		Drum blade M (Accumulated number of rotations)
	DRUM BLADE	Drum blade Y (Counter)
	Y	Drum blade Y (Number of use days)
		Drum blade Y
		(Accumulated number of rotations)
Other	PS PAPER	PS paper dust cleaner (Counter)
04101	. 51/11 LIX	PS paper dust cleaner
		(Number of use days)
	OZONE FILTER	Ozone filter (Counter)
		Ozone filter (Number of use days)
<u> </u>	l	ozono mitor (ritambor or acc days)

### 36cpm machine

Item	/Display	Content
Maintenance	MAINTENANCE	Maintenance counter (Total) (Counter)
	ALL	Maintenance counter (Total)
		(Number of use days)
	MAINTENANCE	Maintenance counter (Color) (Counter)
	COL	Maintenance counter (Color)
		(Number of use days)
Fusing	FUSING BELT	Fusing belt (Counter)
		Fusing belt (Number of use days)
		Fusing belt
		(Accumulated number of rotations)
	FUSING	Fusing roller (Counter)
	ROLLER	Fusing roller (Number of use days)
		Fusing roller
		(Accumulated number of rotations)
	PRESS	Pressure roller (Counter)
	ROLLER	Pressure roller (Number of use days)
		Pressure roller
		(Accumulated number of rotations)
Separation	SEPARATE	Separation pawl (Counter)
	PAWL	Separation pawl (Number of use days)
		Separation pawl
		(Accumulated number of rotations)
	SEPARATE	Separation plate (Counter)
	PLATE	Separation plate (Number of use days)
		Separation plate
		(Accumulated number of rotations)
	FUSING WEB	Fusing web unit print counter
		Use day of fusing web unit
		Fusing web cleaning send counter

Item	n/Dienlay	Content
Transfer	n/Display TC1 BELT	Primary transfer belt (Counter)
Transisi	TOT BEET	Primary transfer belt
		(Number of use days)
		Primary transfer belt
		(Accumulated number of rotations)
	TRANS BLADE	Transfer blade (Counter)
		Transfer blade (Number of use days)
		Transfer blade
		(Accumulated number of rotations)
	TC2 BELT	Secondary transfer belt (Counter)
		Secondary transfer belt
		(Number of use days)
		Secondary transfer belt
	PTC	(Accumulated number of rotations)
	PIC	PTC counter (Counter)
		PTC counter (Number of use days) PTC counter
		(Accumulated number of rotations)
Drum	DRUM CTRG K	Drum cartridge (K) (Counter)
Brain	Brow oncon	Drum cartridge (K) (Number of use
		days)
		Drum cartridge (K)
		(Accumulated number of rotations)
	DRUM CTRG C	Drum cartridge (C) (Counter)
		Drum cartridge (C)
		(Number of use days)
		Drum cartridge (C)
	DDI III OTDO II	(Accumulated number of rotations)
	DRUM CTRG M	Drum cartridge (M) (Counter)
		Drum cartridge (M) (Number of use days)
		Drum cartridge (M)
		(Accumulated number of rotations)
	DRUM CTRG Y	Drum cartridge (Y) (Counter)
		Drum cartridge (Y)
		(Number of use days)
		Drum cartridge (Y)
		(Accumulated number of rotations)
Main	MAIN	Main charger (K) (Counter)
charger	CHARGER K	Main charger (K) (Number of use days)
		Main charger (K) (Accumulated number of rotations)
	MAIN	Main charger (C) (Counter)
	CHARGER C	Main charger (C) (Number of use days)
		Main charger (C)
		(Accumulated number of rotations)
	MAIN	Main charger (M) (Counter)
	CHARGER M	Main charger (M) (Number of use days)
		Main charger (M)
		(Accumulated number of rotations)
	MAIN	Main charger (Y) (Counter)
	CHARGER Y	Main charger (Y) (Number of use days)
		Main charger (Y)
Daniel III	DDUM DI 155	(Accumulated number of rotations)
Drum blade	DRUM BLADE	Drum blade K (Counter)
	IX.	Drum blade K (Number of use days)  Drum blade K
		(Accumulated number of rotations)
	DRUM BLADE	Drum blade C (Counter)
	C	Drum blade C (Number of use days)
		Drum blade C
		(Accumulated number of rotations)
	DRUM BLADE	Drum blade M (Counter)
	М	Drum blade M (Number of use days)
		Drum blade M
	DD111: -: :	(Accumulated number of rotations)
	DRUM BLADE	Drum blade Y (Counter)
	1 '	Drum blade Y (Number of use days)
		Drum blada V
		Drum blade Y (Accumulated number of rotations)

Item	/Display	Content
Other	PS PAPER	PS paper dust cleaner (Counter)
		PS paper dust cleaner
		(Number of use days)
	OZONE FILTER	Ozone filter (Counter)
		Ozone filter (Number of use days)

\* The winding counter for the fusing web cleaning is cleared by being synchronized with the fusing web cleaning feed counter.

24-5	
Purpose	Data clear
Function (Purpose)	Used to clear the developer counter. (After replacement of developer, clear the counter.)
Section	

### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- Press [YES] key.
   The target counter is cleared.

### Note

When SIM25-2 is executed, this counter is also cleared automatically.

	Developer cartridge print counter (K)
K	Accumulated number of rotations of the developer cartridge (cm) (K)
	Number of day that used developer (Day) K
	Developer cartridge print counter (C)
С	Accumulated number of rotations of the developer cartridge (cm) (C)
	Number of day that used developer (Day) C
	Developer cartridge print counter (M)
M	Accumulated number of rotations of the developer cartridge (cm) (M)
	Number of day that used developer (Day) M
	Developer cartridge print counter (Y)
Υ	Accumulated number of rotations of the developer cartridge (cm) (Y)
	Number of day that used developer (Day) Y

24-6		
Purpose	Data clear	
Function (Purpose)	Used to clear the copy counter.	
Section		

### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- Press [YES] key.
   The target counter is cleared.

COPY BW	Copy counter (B/W)
COPY COL	Copy counter (COLOR)
SINGLE COLOR	Single color
2COLOR	2-color

24-9	
Purpose	Data clear
Function (Purpose)	Used clear the printer mode print counter
	and the self print mode print counter.

Section
Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

PRINT BW	Print counter (B/W)
PRINT COL	Print counter (COLOR)
PRINT (2COL)	Print counter (2-colors)
PRINT (3COL)	Print counter (3-colors)
PRINT (SGL_COL)	Print counter (Single color)
OTHER BW	Other counter (B/W)
OTHER COL	Other counter (COLOR)

24-10	
Purpose	Data clear
Function (Purpose)	Used to clear the FAX counter. (Only when FAX is installed)
Section	

### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

FAX OUTPUT	FAX Print quantity counter
FAX SEND	FAX send counter
FAX RECEIVED	FAX receive counter
SEND IMAGES	FAX send quantity counter
SEND TIME	FAX send time
RECEIVED TIME	FAX receive time

24-15	
Purpose	Data clear
Function (Purpose)	Used to clear the counters related to the scan mode and the image send.
Section	

### Operation/Procedure

- 1) Select the item to be cleared with the touch panel key.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

Division	Item/Display	Content
Network scanner	NET SCN ORG_B/W	Network scanner document read quantity counter (B/W scan job)
	NET SCN ORG_CL	Network scanner document read quantity counter (COLOR scan job)
	NET SCN ORG_2CL	Network scanner document read quantity counter (2-color scan job)
	NET SCN ORG_SGL	Network scanner document read quantity counter (single color scan job)

Division	Item/Display	Content
Internet Fax	INTERNET FAX OUTPUT	Number of internet FAX output
	INTERNET FAX SEND OUTPUT	Number of internet FAX sending page
	INTERNET FAX RECEIVE	Number of internet FAX receive
	INTERNET FAX SEND	Number of internet FAX send
E-mail	MAIL COUNTER	Number of times of E-MAIL send
FTP	FTP COUNTER	Number of FTP send
Other	SMB SEND	Number of SMB send
	USB CNT	Number of times of USB storage
	TRIAL MODE_B&C	Trial mode counter (B/W & COLOR scan job)
	SCAN TO HDD_B/W	SCAN TO HDD record quantity (B/W)
	SCAN TO HDD_CL	SCAN TO HDD record quantity (COLOR)
	SCAN TO HDD_2CL	SCAN TO HDD record quantity (2-COLOR)
	SCAN TO HDD_SGL	SCAN TO HDD record quantity (SINGLE color)

24-35	
Purpose	Data clear
Function (Purpose)	Used to clear the toner cartridge use status data.
Section	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The toner cartridge use status data (SIM22-14) are cleared.

# **25**

25-1		
Purpose	Operation test/check	
Function (Purpose)	Used to check the operations of the developing section.	
Section	Process (Developing section)	
On a mati a m / D ma a a di una		

### Operation/Procedure

- 1) Select the process speed with [MIDDLE], [LOW] keys.
- 2) Press [EXECUTE] key.

The developing motor and the OPC drum motor rotate for 3 minutes and the output level of the toner density sensor is displayed.

TCS_K	Toner sensor output value (K)
TCS_C	Toner sensor output value (C)
TCS_M	Toner sensor output value (M)
TCS_Y	Toner sensor output value (Y)
TSG_K	Toner density sensor control voltage level (K)
TSG_C	Toner density sensor control voltage level (C)
TSG_M	Toner density sensor control voltage level (M)
TSG_Y	Toner density sensor control voltage level (Y)

LOW	Process speed: Low speed
MIDDLE	Process speed: Medium speed

## Important

The toner cartridge must be removed before executing this simulation

If this simulation is executed with the toner cartridge installed, toner will be forcibly supplied to the developing unit, resulting in overtoner and a trouble.

25-2		
Purpose	Setting	
Function (Purpose)	Used to make the initial setting of toner density when replacing developer. (Automatic adjustment)	
Section	Image process (Photoconductor/Develo	

- 1) Select a color to be adjusted with the touch panel.
- 2) Press [EXECUTE] key.

The developing motor rotates for 1 min 30 sec, and the toner density sensor makes sampling of the toner density. The detected level is displayed.

After stopping the developing motor, the average value of the toner density sampling results is set as the reference toner density control level.

### Important

When the above operation is interrupted on the way, the reference toner concentration level is not set. Also when error code of EE-EC, EE-EL or EE-EU is displayed, the reference toner density level is not set normally.

Do not execute this simulation except when new developer is supplied. If it is executed in other cases, undertoner or overtone may occur, causing a trouble.

Division	Item/Display	Display range	Default value
Toner density control	AT DEVE ADJ_L_K	1 - 255	128
adjustment value in the	AT DEVE ADJ_L_C	1 - 255	128
low speed process mode	AT DEVE ADJ_L_M	1 - 255	128
	AT DEVE ADJ_L_Y	1 - 255	128
Toner density control	AT DEVE ADJ_M_K	1 - 255	128
adjustment value in the	AT DEVE ADJ_M_C	1 - 255	128
medium speed process	AT DEVE ADJ_M_M	1 - 255	128
mode	AT DEVE ADJ_M_Y	1 - 255	128
Toner density sensor	AT DEVE VO_L_K	1 - 255	128
control voltage level in	AT DEVE VO_L_C	1 - 255	128
the low speed process	AT DEVE VO_L_M	1 - 255	128
mode	AT DEVE VO_L_Y	1 - 255	128
Toner density sensor	AT DEVE VO_M_K	1 - 255	128
control voltage level in	AT DEVE VO_M_C	1 - 255	128
the medium speed	AT DEVE VO_M_M	1 - 255	128
process mode	AT DEVE VO_M_Y	1 - 255	128

### Display during execution of the simulation

Item/Display	Content
TCS_K	Toner sensor output value (K)
TCS_C	Toner sensor output value (C)
TCS_M	Toner sensor output value (M)
TCS_Y	Toner sensor output value (Y)
TSG_K	Toner density sensor control voltage level (K)
TSG_C	Toner density sensor control voltage level (C)
TSG_M	Toner density sensor control voltage level (M)
TSG_Y	Toner density sensor control voltage level (Y)

### **Error content**

Display	Error name	Error content
EE-EL	EL abnormality	The sensor output level is less than 77, or
		the control voltage exceeds 207.
EE-EU	EU abnormality	The sensor output level exceeds 177, or the
		control voltage is less than 52.
EE-EC	EC abnormality	The sensor output level is outside of 128±3.

25-4				
Purpose	Adjustment/Setting/Operation data check			
Function (Purpose) Used to display the operation do toner supply quantity. (Not used in ket.)				
Section	Process			

#### Operation/Procedure

The operation data of the toner supply quantity are displayed.

Item/Display	Content	Display range
YLD_CNT_FB	Toner supply FB rate by the yield count	50 - 200
DELTA_DVB	Delta DVB (Process control DVB - Target DVB)	-500 - 500
IDL_DVB	Target DBV	100 - 600
PROCON_DVB	Process control DVB	100 - 600
DV_LIFE	Developer life area	1 - 8
COVERAGE_ AREA	Average print rate area	1 - 10
ENV_AREA	Environment area	1 - 8
MULTI_TIME	Toner supply drive time area (Specified by the DV motor rotation time)	1 - 8
PRO_FB_CNT	No. of remaining times of toner supply for the process control result	0 - 65535
PRO_FB_INT	Interval of toner supply for the process control result	0 - 65535
PRO_FB_RATIO	Correction rate of one-time toner supply for the process control result	-10 -10
RECV_MODE_ CNT(+)	No. of times of recovery mode (+) (No. of times of compulsory toner supply)	0 - 65535
RECV_MODE_ CNT(-)	No. of times of recovery mode (-) (No. of times of compulsory printing of one-color background image)	0 - 65535

25-5	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to display the toner density correction data. (Not used in the market.)
Section	Process

### Operation/Procedure

The toner density correction data are displayed.

Item/Display	Content	Display range
TCS OUTPUT	Toner sensor output value	0 - 255
DELTA_TSG	Toner density sensor control voltage level correction value	-255 - 255
TSG_REF	Toner density sensor control voltage level reference value	0 - 255
TN_FALL_CNT_ JOB	Toner fall amount during a job (latest average value)	0 - 255
TN_FALL_ JUDGE_CNT	Toner fall judgment threshold value during a job	0 - 255
TN_FALL_MODE_ CNT	No. of times of job interruption toner supply operation mode	0 - 255
TN_FALL_CNT_ INT	Latest average value of toner fall amount in job interruption toner supply operation	0 - 255
TN_FALL_CNT_ NEW	Latest average value of toner fall amount when installing a new toner cartridge	0 - 255
TCS_ERR_MODE _CNT(+)	No. of times of TCS abnormality detection mode (+) (Undertoner)	0 - 65535
TCS_ERR_MODE _CNT(-)	No. of times of TCS abnormality detection mode (-) (Overtoner)	0 - 65535



26-1	
Purpose	Setting
Function (Purpose)	Used to set Yes/No of installation of the right paper exit tray.
Section	Paper exit

- 1) Enter the set value with 10-key.
- 2) Press [OK] key. (The set value is saved.)

This setting is required to use the right paper exit tray unit.

Item/Display		em/Display	Content
Α	0	YES	Paper exit tray: YES
	1	NO	Paper exit tray: NO

26-2			
Purpose	Setting		
Function (Purpose)	Used to set the paper size of the large capacity tray (LCC). (When the paper size is changed, this simulation must be executed to change the paper size in software.)		
Section	Paper feed		
Operation/Procedure	•		

#### Operation/Procedure

Select a paper size and a weight system to be changed.

Item	Setting value	Content
LCC	0	8.5 x 11
	1	A4
	2	B5
G/LBS SET	0	GRAM
	1	LBS

Da atimatia n	Setting value			
Destination	LCC	G/LBS SET		
U.S.A	8.5 x 11	LBS		
CANADA	8.5 x 11	LBS		
INCH	8.5 x 11	LBS		
JAPAN	A4	GRAM		
AB_B	A4	GRAM		
EUROPE	A4	GRAM		
U.K.	A4	GRAM		
AUS.	A4	GRAM		
AB_A	A4	GRAM		
CHINA	A4	GRAM		

26-3	
Purpose	Setting
Function (Purpose)	Used to set the specifications of the auditor. (Setting must be made according to the auditor use conditions.)
Section	Auditor
Operation/Procedure	•

#### Operation/Procedure

Select an item to be set with the touch panel.

Item/D	isplay	Content	Default value
BUILT-IN AUDITOR	P10	Built-in auditor mode (standard mode) operation.	P10
OUTSIDE AUDITOR	NONE	No external connection vendor is used.	NONE
	P VENDOR1	Coin vendor mode	
		(Only the copy mode can be controlled.)	
	P VENDOR3	Vendor mode in which	
		signals for the intercard	
		connected to the PCU are used for communication in	
		parallel I/F.	
	P OTHER	Mode for an external	
		auditor connected to the SCU.	
	VENDOR-EX (*1)	Vendor I/F for EQUITRAC	
	VENDOR-EX	VENDOR-EX + Multi job	
	(MULTI) (*1)	cueing Enable mode	
DOC ADJ	S_VENDOR ON	Serial vendor mode Support for the auditor in	OFF
DOC ADS	ON	document filing print	011
	OFF	No support for the auditor in	
DE AD I	ON	document filing print	OFF
PF ADJ	ON	Continuous printing is performed in the duplex	OFF
		print mode.	
		If the remaining money	
		expires during continuous printing, the sheets in the	
		machine are discharged	
		without being printed on the	
		back surfaces.	
	OFF	Continuous printing is not performed in the duplex	
		print mode. (The remaining	
		amount is checked for	
		printing every surface in all the printing process.)	
		If the remaining money	
		expires during printing, the	
		sheet is discharged without	
		printing on the back surface.	
VENDOR	MODE1	Vendor mode 1	MODE
MODE (*2)	MODE2	Vendor mode 2	3
COLINITUD	MODE3 FUSER IN	Vendor mode 3  Mode in which the detection	FVIT
COUNTUP TIMING	FUSER_IN	timing of the paper lead	EXIT_ OUT
		edge by the sensor after the	
		paper passes the fusing	
		section is used as the money charging timing.	
	FUSER OUT	Mode in which the detection	
		timing of the paper rear	
		edge by the sensor after the	
		paper passes the fusing section is used as the	
		money charging timing.	
	EXIT_OUT	Mode in which the detection	
		timing of the paper rear	
		edge by the paper exit sensor of the right paper	
		exit tray or of the after	
		process unit is used as the	
		money charging timing.	

- (\*1) Displayed only when EQUITRAC.
- (\*2) Details of the vendor mode

#### Details of the vendor mode

	Completion of the specified quantity. (Money remaining)	Insufficient n copy BW/Color (no money remaining)	coney during y job Color (Money remaining)	Completion of the specified quantity. (No money remaining)
	Condition 1	Condition 2	Condition 3	Condition 4
MODE1	Operation 1	Operation 2	Operation 2	Operation 1
MODE2	Operation 1	Operation 1	Operation 2	Operation 1
MODE3	Operation 1	Operation 3	Operation 2	Operation 3

#### Operation 1:

Standby during setting time of auto clear. Default is 60 seconds, which can be changed in the system setting.

#### Operation 2:

Auto clear is not made.

#### Operation 3:

Section

The display is shifted to the initial screen.

26-5	
Purpose	Setting
Function (Purpose)	Used to set the count mode of the total
	counter and the maintenance counter. (A3,
	11x17 size)

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- Enter the setting value with 10-key1 = Count up by 1, 2 = Count up by 2
- 3) Press [OK] key.

The set value in step 2) is saved.

Item/Display		Content	Default value
Α	TOTAL (B/W)	Total counter (B/W)	1
В	TOTAL (COL)	Total counter (Color)	(Japan) 2
			(Except Japan)
С	MAINTE (B/W)	Maintenance counter (B/W)	2
D	MAINTE (COL)	Maintenance counter (Color)	
Е	DEV (B/W)	Developer counter (B/W)	
F	DEV (COL)	Developer counter (Color)	

26-6	
Purpose	Setting
Function (Purpose)	Used to set the specifications (paper, fixed magnification ratio, etc.) of the destination.
Section	

### Operation/Procedure

- 1) Select an item to be set with the touch panel.
- Press [EXECUTE] key.

The selected set content is saved.

U.S.A.	United States of America
CANADA	Canada
INCH	Inch series, other destinations
JAPAN	Japan
AB_B	AB series (B5 detection), other destinations
EUROPE	Europe
U.K.	United Kingdom
AUS.	Australia
AB_A	AB series (A5 detection), other destinations
CHINA	China

26-7	
Purpose	Setting
Function (Purpose)	Used to set the machine ID.
	(26cpm/36cpm/31cpm(A) machine)
Section	

#### Operation/Procedure

1) Enter the machine ID with the 10-key.

Max. 30 digits of numerals and alphabetical characters can be inputted.

To select a desired character, press the 10-key repeatedly.

Refer to the following list and enter characters.

Touch the "CONFIRM" section every time a character is inputted.

To modify an inputted character, delete it with "CLEAR" key and enter the correct character.

2) Press [SET] key to set the contents entered in procedure 1).

### Note

The machine ID can be set also by the Web Page service mode function.

Conventionally, the machine ID has been set by the Web Page function. In this mode, this function is made available in the simulation mode.

10-key	Number of times of key input									
10-key	1	2	3	4	5	6	7	8	9	10
1	1	•	1	-	-	-	-	-	-	-
2	Α	В	С	а	b	С	2	-	-	-
3	D	Е	F	d	е	f	3	-	-	-
4	G	Н	ı	g	h	i	4	-	-	-
5	J	K	L	j	k	- 1	5	-	-	-
6	М	N	0	m	n	0	6	-	-	-
7	Ρ	Q	R	S	р	q	r	S	7	-
8	Т	U	V	t	u	٧	8	-	-	-
9	W	Χ	Υ	Z	W	Х	у	Z	9	-
0	0	-	-	-	-	-	-	-	-	-

26-10	
Purpose	Setting
Function (Purpose)	Used to set the trial mode of the network
	scanner.
Section	

#### Operation/Procedure

- 1) Enter the set value with 10-key.
- 2) Press [OK] key.

The set value in step 1) is saved.

TRIAL MODE	0	Trial mode setting
(0: YES 1: NO)	1	Trial mode cancel (Default)

Purpose Setting

Function (Purpose) Used to set Disable/Enable of the toner save mode operation.

(For the Japan and the UK versions.)

Section

#### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- Press [OK] key.
   The set value in step 2) is saved.

### 18cpm/20cpm/23cpm/31cpm(G) machine

Item	Display		Content		
Α	COPY	0	0 Copy toner save mode is inhibited.		
		1	Copy toner save mode is allowed	U	
В	PRINTER	0	Printer toner save mode is inhibited.		
		1	Printer toner save mode is allowed.	U	

#### 26cpm/36cpm/31cpm(A) machine

Item	Display		Content	Setting range	Default value	NOTE
Α	COPY (0: OFF 1: SV1 2: SV2	0	Copy toner save mode NOT available	0 - 3	0	
	3: SV3)	1	Copy toner save mode 1			1: Toner save LOW
		2	Copy toner save mode 2			
		3	Copy toner save mode 3			3: Toner save HIGH
В	PRINTER (0: OFF 1: SV1 2: SV2	0	Printer toner save mode NOT available	0 - 3	0	
	3: SV3)		Printer toner save mode 1			1: Toner save LOW
		2	Printer toner save mode 2			
		3	Printer toner save mode 3			3: Toner save HIGH
С	COPY TS DISPLAY (0: YES 1: NO)	0	Setting of copy toner save is displayed.	0 - 1	1 (Linked with the set value	
		1	Setting of copy toner save is not displayed.		of SIM26- 6.)	
D	PRINTER TS DISPLAY (0:YES	0	Setting of printer toner save is displayed.	0 - 1	1 (Linked with the set value	
	1:NO)	1	Setting of printer toner save is not displayed.		of SIM26- 6.)	

Destination	Default value C	Default value D
U.S.A	0 (Displayed)	0 (Displayed)
CANADA	0 (Displayed)	0 (Displayed)
INCH	0 (Displayed)	0 (Displayed)
JAPAN	1 (Not Displayed)	0 (Displayed)
AB_B	0 (Displayed)	0 (Displayed)
EUROPE	0 (Displayed)	0 (Displayed)
U.K.	1 (Not Displayed)	0 (Displayed)
AUS.	0 (Displayed)	0 (Displayed)
AB_A	0 (Displayed)	0 (Displayed)
CHINA	0 (Displayed)	0 (Displayed)

26-30

Purpose Setting

Function (Purpose)

Used to set the operation mode corresponding to the CE mark (Europe safety standards). (For slow start to drive the fusing heater lamp)

Section

### Operation/Procedure

1) Enter the set value with 10-key.

0	Control allowed
1	Control inhibited

#### 2) Press [OK] key.

The set value in step 1) is saved.

\* Even in Enable state, the control may not be executed due to the power frequency, etc.

U.S.A	1 (CE not supported)	EUROPE	0 (CE supported)
CANADA	1 (CE not supported)	U.K.	0 (CE supported)
INCH	1 (CE not supported)	AUS.	0 (CE supported)
JAPAN	1 (CE not supported)	AB_A	0 (CE supported)
AB_B	1 (CE not supported)	CHINA	0 (CE supported)

26-32	
Purpose	Setting
Function (Purpose)	Used to set the specifications of the fusing cleaning operation.
Section	Fusing

#### Operation/Procedure

- Enter the set value with 10-key.
   Enable/Disable of the user fusing cleaning function is set.
- 2) Press [OK] key.

Item/Display		Content	Setting	j range	Default value
Α	CLEANIN G PRINT	User fusing cleaning function is Enable.	0	YES	1(NO)
	SET	User fusing cleaning function is Disable.	1	NO	

26-35	
Purpose	Setting
Function (Purpose)	Used to set the display mode of SIM 22-4 trouble history when a same trouble occurred repeatedly. There are two display modes: display as one trouble and display as several series of troubles.

### Operation/Procedure

Section

1) Enter the set value with 10-key.

0	Only once display.
1	Any time display.

### 2) Press [OK] key.

The set value in step 1) is saved.

| Purpose | Setting |
| Function (Purpose) | Used to set Continue/Stop of print when the maintenance life is reached.

Section

#### Operation/Procedure

- 1) Enter the set value with 10-key.
- Press [OK] key.
   The set value in step 1) is saved.

### 18cpm/20cpm/23cpm/26cpm/31cpm machine

ltem/Display			Content	
Α	MAINTENANCE LIFE OVER (0: CONTINUE	0	Setting of Print Continue/ Stop when the maintenance life is over (Print Continue)	0
	1: STOP)	1	Setting of Print Continue/ Stop when the maintenance life is over (Print Stop)	

### 36cpm machine

	Item/Display		Content	
Α	MAINTENANCE LIFE OVER (0: CONTINUE	0	Setting of Print Continue/ Stop when the maintenance life is over (Print Continue)	0
	1: STOP)	1	Setting of Print Continue/ Stop when the maintenance life is over (Print Stop)	
В	FUSER WEB END (0: CONTINUE 1: STOP)	0	Continue/Stop setting of print when the fusing web is end (Print Continue)	1
		1	Continue/Stop setting of print when the fusing web is end (Print Stop)	

26-41	
Purpose	Setting
Function (Purpose)	Used to set Enable/Disable of the magnification ratio automatic select function (AMS in the center binding mode.
Section	

### Operation/Procedure

1) Enter the set value with 10-key.

0	AMS Disable
1	AMS Enable

### 2) Press [OK] key.

The set value in step 1) is saved.

### <Default value of each destination>

U.S.A	0 (Disable)	EUROPE	1 (Enable)
CANADA	0 (Disable)	U.K.	1 (Enable)
INCH	0 (Disable)	AUS.	0 (Disable)
JAPAN	0 (Disable)	AB_A	0 (Disable)
AB_B	0 (Disable)	CHINA	0 (Disable)

26-49	
Purpose	Setting
Function (Purpose)	Used to set the print speed of postcards mode.
Section	

#### Operation/Procedure

Select the copy speed mode with the touch panel. (Default: LOW)

Item/Setting value	Content	Default value
LOW	Postcard copy speed LOW	LOW
HIGH	Postcard copy speed HIGH	

26-50	
Purpose	Setting
Function (Purpose)	Used to set functions.
Section	

### Operation/Procedure

- Select a target item of setting with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

	Item/Display		Content	
Α	BW REVERSE	0	BW reverse copy Disable	Refer
		1	BW reverse copy Enable	to *1
В	COLOR MODE		olor/Single color copy mode ble/Disable setting	Refer to *1/*2
С	FINISHER FUNCTION	0	0 Finisher special paper The number of paper exit is limited.	
		1	Finisher special paper The number of paper exit is not limited.	
D	COLOR MODE (PRINTER)	All colors and monochrome counters are displayed.		Refer to *1
		All are displayed except for the 3-color print counter.		
		2	Monochrome and full color print counters are displayed.	
E	FEED TRAY COLOR	0	Paper feed tray color display ON during paper feed	0
		1	Paper feed tray color display OFF during paper feed	
F	LONG SIZE PRINT	0	Long size print enable	0
		1	Long size print disable	

### (\*1) Default values for each destination of item A/B/D

Destination	Item A	Item B	Item D
USA	1	0	2
CANADA	1	0	2
INCH	1	0	2
JAPAN	1	7	2
AB_B	1	0	2
EUROPE	1	0	2
UK	0	0	2
AUS	1	0	2
AB_A	1	0	2
CHINA	1	0	2

(\*2) Item B: COLOR MODE set value (OFF: Displayed/ON: Not displayed)

Set value	Mode		2-Color/Single
Set value	Single	2-color	Counter
0	OFF	OFF	OFF
1	OFF	ON	OFF
2	ON	OFF	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	OFF	ON	ON
6	ON	OFF	ON
7	ON	ON	ON

(\*3)

	Target	Target paper setting	
	paper	0	1
Inner finisher	Postcard, envelope	The operation is stopped when 10 sheets of a same kind are discharged continuously. When, however, different kinds of sheets are mixed and discharged and 10 or less sheets of a kind are continuously discharged, the operation is stopped by the paper exit tray full detection.	If it is set to "1," the operation is stopped when the paper exit tray is full or when 250 sheets (35.5mm thick) are discharged.
	Label sheet, tab sheet, OHP	The operation is stopped when 100 sheets of a same kind are discharged continuously. When, however, different kinds of sheets are mixed and discharged and 100 or less sheets of a kind are continuously discharged, the operation is stopped by the paper exit tray full detection.	
Saddle stitch finisher	Postcard, envelope	The operation is stopped when 30 sheets of a same kind are discharged continuously. When, however, different kinds of sheets are mixed and discharged and 30 or less sheets of a kind are continuously discharged, the operation is stopped by the paper exit tray full detection.	If it is set to "1," the operation is stopped when the paper exit tray is full or when 500 sheets (67mm thick) are discharged.
	Label sheet, tab sheet, OHP	The operation is stopped when 100 sheets of a same kind are discharged continuously. When, however, different kinds of sheets are mixed and discharged and 100 or less sheets of a kind are continuously discharged, the operation is stopped by the paper exit tray full detection.	

26-51	
Purpose	Setting
Function (Purpose)	Used to set the specifications of the serial port operation. (For PCI)
Section	

#### Operation/Procedure

- Enter the set value with 10-key.
   When the PCI is installed, setting is made to 1 or 2.
- 2) Press [OK] key.

	Item/Display	Content	Setting range	Default value
Α	PCI SETTING	Serial port PCI mode OFF (→For connecting the serial port vendor)	0	0 (Serial port PCI
		Serial port PCI mode ON (JOB status LED: MODE1)		mode OFF)
		Serial port PCI mode ON (JOB status LED: MODE2)		

MODE1: Red LED is light/blink/OFF, MODE2: Red LED always OFF



When "PCI SETTING" is changed from "0" to "1" or "2," if SIM26-03 "OUTSIDE AUDITOR" is set to "S\_VENDOR," "OUTSIDE AUDITOR" is changed to "NONE."

26-52	
Purpose	Setting
Function (Purpose)	Used to set whether non-printed paper (insertion paper, cover paper) is counted up or not.
Section	

### Operation/Procedure

1) Enter the set value with 10-key.

0	Count up
1	No count up

### 2) Press [OK] key.

The set value in step 1) is saved.

Destination	Default
U.S.A	0 (Counted)
CANADA	0 (Counted)
INCH	0 (Counted)
JAPAN	1 (Not counted)
AB_B	0 (Counted)
EUROPE	0 (Counted)
U.K.	0 (Counted)
AUS.	1 (Not counted)
AB_A	0 (Counted)
CHINA	0 (Counted)

26-53	
Purpose	Setting
Function (Purpose)	User auto color calibration (color balance adjustment) Inhibit/Allow setting.
Section	

1) Enter the set value with 10-key.

Item/Display		Item/Display Content		Setting range	Default value
Α	COPY	Сору	Allow	1	1
	(1:YES 0:NO)	mode	Inhibit	0	
В	PRINTER	Printer	Allow	1	1
	(1:YES 0:NO)	mode	Inhibit	0	

### 2) Press [OK] key.

The set value in step 1) is saved.

26-65	
Purpose	Setting
Function (Purpose)	Used to set the finisher alarm mode.
Section	

### Operation/Procedure

Use the touch key to set.

Item	Set value	Content	Setting range	Default value	NOTE
LIMIT SHEETS	30	Number of sheets of stapling: Max. 30	30 or 50	50	A4, A4R, B5, 8.5" x 11", 8.5" x 11"R, 16K, 16KR
	50	Number of sheets of stapling: Max. 50			For saddle stitch finisher
LIMIT COPIES	ON	Number of sets of stapling: Max. 50 sets	ON or OFF	ON	
	OFF	Number of sets of stapling: Not Limited			
LIMIT SHEETS (L)	25	Number of sheets of stapling: Max. 25	25 or 30	25	A3, B4, 11" x 17", 8.5" x 14", 8.5" x 13.5", 8.5" x 13.4",
	30	Number of sheets of stapling: Max. 30			8.5" x 13", 8K For saddle stitch finisher
SADDLE COPIES	ON	Number of sets loaded in the saddle staple: Limited	ON or OFF	ON	For saddle stitch finisher
	OFF	Number of sets loaded in the saddle staple: Not Limited			

26-69	
Purpose	Setting
Function (Purpose)	Used to set the operating conditions for
	toner near end.
Section	

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2 is saved.

	Item/Display			Content	Setting range	Default value
Α	TONER PREPARATION (0:YES 1:NO)		0	The toner preparation message is displayed.	0 - 1	List of Default values and set values
			1	The toner preparation message is not displayed.		for each destination
В	REMAINING TONER LEVEL	0.05	0	Toner preparation at remaining toner level of 5%	0 - 9	
		0.1	1	Toner preparation at remaining toner level of 10%		
		0.15	2	Toner preparation at remaining toner level of 15%		
		0.2	3	Toner preparation at remaining toner level of 20%		
		0.25	4	Toner preparation at remaining toner level of 25%		
		0.3	5	Toner preparation at remaining toner level of 30%		
		0.35	6	Toner preparation at remaining toner level of 35%		
		0.4	7	Toner preparation at remaining toner level of 40%		
		0.45	8	Toner preparation at remaining toner level of 45%		
		0.5	9	Toner preparation at remaining toner level of 50%		
С	TONER NEAF END (0:YES 1		0	The toner near end message is displayed. The toner near	0 - 1	
				end message is not displayed.		
D	TONER END		1	Operation setup	1 - 3	
			3	Operation setup 2 Operation setup		
			Š	3		

	Item/Display	Content		Setting range	Default value
Е	TONER END COUNT	nur prir Ena	ting of the mber of copy/ nt/FAX outputs able after TONER AR END.	1 - 3	1
F	TONER E-MAIL ALERT	0	Low status send of E-mail alert (When the toner preparation message is displayed) (in near near toner end)	0 - 1	1
		1	Low status send of E-mail alert (near toner end)		

# Item E (TONER END COUNT) setting value and printable quantity

Setting value	Printable quantity at A4/5% equivalent conversion
1	0
2	25
3	50

#### <List of Default values and set values for each destination>

		Setting value			
Destination	Toner preparation message	Toner preparation time	Toner near end message	Enable/ Disable of print job continuation at toner end	
U.S.A	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)	(Print operation stopped)	
CANADA	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)		
INCH	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)		
JAPAN	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	1 (Not Displayed)		
AB_B	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)		

		Setting value			
Destination	Toner preparation message	Toner preparation time	Toner near end message	Enable/ Disable of print job continuation at toner end	
EUROPE	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)	2 (Print operation stopped)	
U.K.	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)		
AUS.	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)		
AB_A	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)		
CHINA	0 (Displayed)	4 (Displayed when the toner remaining quantity is 25%.)	0 (Displayed)	1 (Print operation continued)	

(Contents of set items)

- A: Enable/Disable setting of the toner preparation message display.
- $\ensuremath{\mathsf{B}}\xspace$  . The toner remaining quantity at which the toner preparation message is displayed.
- C: Enable/Disable setting of the toner preparation message display when the toner near end status is reached.
- D: Machine operation at toner end
- E: Number of allowable copy/print/FAX when the toner near end message is displayed. (Range: 0 50 sheets)

The number of output print allowed in item D is based on the assumption that the sheets are of A4 size with print ratio of 5%. (The number of outputs allowed differs depending on the paper size and the print ratio.)

### Important

When item A is set to "0" and item E is properly set, printing can be made after toner near end. However, improper phenomena such as insufficient density, thin spots, or improper color balance may result depending on the using conditions. When item E is set to "1" printing is disabled after toner near end. In this case, toner end display is made in the toner near end status, and copy/print/FAX outputs are disabled.

### Operation/Procedure

- 1) Enter the set value with 10-key.
- 2) Press [OK] key.

	Item/Display		Content	Setting range	Default value
Α	WEB BROWSING	0	Web browsing trial mode setting	0 - 1	1
	TRIAL MODE (0: YES 1: NO)	1	Web browsing trial mode canceling		

26-73	
Purpose	Setting
Function (Purpose)	Enlargement continuous shoot, A3 wide copy mode image loss (shade delete quantity) adjustment
Section	

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

When the adjustment value is increased, the image loss (shade delete quantity) is increased.

	Item/Display	Content	Setting range	Default value
Α	DELETING	Rear frame side	0 - 50	0
	SHADOW ADJ	image loss quantity		(Adjustment
	(M)	(shade delete		amount:
		quantity) adjustment		0.1mm/step)
В	DELETING	Lead edge image	0 - 50	0
	SHADOW ADJ (S)	loss quantity (shade		(Adjustment
		delete quantity)		amount:
		adjustment		0.1mm/step)

26-74	
Purpose	Setting
Function (Purpose)	Used to set the OSA trial mode.
Section	

### Operation/Procedure

- 1) Enter the set value with 10-key.
- 2) Press [OK] key.

	Item/Display		Content	Setting range	Default value
Α	OSA TRIAL MODE (0: YES 1: NO)	0	Used to set the OSA trial mode.	0 - 1	1
		1	OSA trial mode is canceled.		

26-78	
Purpose	Setting
Function (Purpose)	Used to set the password of the remote operation panel.
Section	

### Operation/Procedure

- Enter a password with 10-key. (5 8 digits)
   The entered password is displayed on the column of "NEW".
   In order to correct the entered password, press the [clear] key to delete the entered value one digit by one digit.
- 2) Press [SET] key.

26-79	
Purpose	Setting
Function (Purpose)	Used to set YES/NO of the pop-up display of user data delete result.
Section	

### Operation/Procedure

- Enter the set value with 10-key.
   The value for the display operation specification after completion of user data delete is set.
- 2) Press [OK] key.

Item/Display		Content	Setting	ı range	Default value
Α	DISP SET	User data delete result pop-up display ON	YES	1	0 (NO)
		User data delete result pop-up display OFF	NO	0	



27-1				
Purpose	Setting			
Function (Purpose)	Used to set non-detection of communication error (U7-00) with RIC. (FSS function)			
Section				

### Operation/Procedure

1) Enter the set value with 10-key.

0	Not detection
1	Detection

2) Press [OK] key.

The set value in step 1) is saved.

27-2	
Purpose	Setting
Function (Purpose)	Used to set the sender's registration number and the HOST server telephone number. (FSS function)

### Section

### Operation/Procedure

- Select an item to be set with touch panel.
  [USER FAX NO] [SERVA TEL NO]
- 2) Enter the set value with 10-key.
- 3) Press [SET] key.

The set value in step 2) is saved.

USER FAX_NO.	Sender registration number (Max. 16 digits)
SERVA TEL_NO.	Host server telephone number (Max. 16 digits)  If the connection process is not completed normally when registering the FSS, calling to the HOST may be continuously made every time when the power is turned ON (from OFF) or rebooted.  In this case, enter "************************************

27-4	
Purpose	Setting
Function (Purpose)	Used to set the initial call and toner order auto send. (FSS function)
Section	

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2) is saved.

	Item/Display		Content		Setting range		Default value	Remarks
Α	FSS MODE	NEB1	Set the FSS MODE	Exclusive for send in NE-B mode	0 - 3	0	1	
		NEB2		Send/Receive in NE-B mode		1		
		NFB1		Exclusive for send in NE-F mode		2		For convenience stores
		NFB2		Send/Receive in NE-F mode		3		For convenience stores
В	RETRY_BUSY		Resend number setting	when busy	0 - 1	15	2	0: No retry
С	TIMER(MINUTE)_BU	ISY	Resend timer setting (n	ninute) when busy	1 - 1	15	3	
D	RETRY_ERROR		Resend number setting	when error	0 - 1	15	1	0: No retry
Е	TIMER(MINUTE)_ER	ROR	Resend timer setting (n	ninute) when error	1 - 1	15	1	
F	FAX RETRY		Resend number setting	when FAX initial connection	0 - 1	15	2	Unit: Number of times
G	TONER ORDER	EMPTY	Toner order auto send	Empty	0 - 11	0	6	
	TIMING(K)	NEAR_END	timing setting (K)	Near end		1		
		0.05		0.05		2		
		0.1		0.1		3		
		0.15		0.15		4		
		0.2		0.2		5		
		0.25		0.25		6		
		0.3		0.3		7		
		0.35		0.35		8		
		0.4		0.4		9		
		0.45		0.45		10		
		0.5		0.5		11		

Item/Display			Content	Setti rang	-	Default value	Remarks	
Н	TONER ORDER	EMPTY	Toner order auto send	Empty	0 - 11	0	6	
	TIMING(C)	NEAR_END	timing setting (C)	Near end		1		
		0.05		0.05		2		
		0.1		0.1		3		
		0.15		0.15		4		
		0.2		0.2		5		
		0.25		0.25		6		
		0.3		0.3		7		
		0.35		0.35		8		
		0.4		0.4		9		
		0.45		0.45		10		
		0.5		0.5		11		
ı	TONER ORDER	EMPTY	Toner order auto send	Empty	0 - 11	0	6	
	TIMING(M)	NEAR_END	timing setting (M)	Near end		1		
		0.05		0.05		2		
		0.1		0.1		3		
		0.15		0.15		4		
		0.2		0.2		5		
		0.25		0.25		6		
		0.3		0.3		7		
		0.35		0.35		8		
		0.4		0.4		9		
		0.45		0.45		10		
		0.5		0.5		11		
J	TONER ORDER	EMPTY	Toner order auto send	Empty	0 - 11	0	6	
	TIMING(Y)	NEAR_END	timing setting (Y)	Near end		1		
		0.05		0.05		2		
		0.1		0.1		3		
		0.15		0.15		4	1	
		0.2		0.2		5		
		0.25		0.25		6		
		0.3		0.3		7		
		0.35		0.35		8		
		0.4		0.4		9		
		0.45	7	0.45		10		
		0.5		0.5		11		
K	TEMP HISTORY CY	CLE CLE	Frequency of acquiring	the temperature and humidity history	1 - 14	140	60	Unit: min.
L	LOG OUTPUT CAPA	ACITY(PCU)	Log output capacity		0 - 5	50	30	Unit: [KB]

#### Operation/Procedure

Enter the password (max. 8 digits) with 10-key.
 The entered password is displayed on the column of "NEW".
 In order to correct the entered password, press the [clear] key to delete the entered value one digit by one digit.

2) Press [SET] key.

27-6	
Purpose	Setting
Function (Purpose)	
	(FSS function)
Section	

#### Operation/Procedure

1) Enter the set value with 10-key.

0	Allow (Default)
1	Inhibit

2) Press [OK] key.

The set value in step 1) is saved.

27-7	
Purpose	Setting
Function (Purpose)	Used to set of the enable, alert callout. (FSS function)
Section	

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.
  The set value in step 2) is so

The set value in step 2) is saved.

	Item/Display	Content	Setting range	Default value
Α	FUNCTION	FSS function enable	0	1 (NO)
	(0:YES 1:NO)	FSS function disable	1	
В	ALERT	Alert call enable (*1)	0	0 (YES)
	(0:YES 1:NO)	Alert call disable	1	
С	CONNECTION	FAX connection enable	0	0 (FAX)
	(0: FAX	Not used.	1	
	1: No Use 2: HTTP)	HTTP connection enable	2	

#### \*1 Alert send timing

No alert cause	Initial state / Trouble / Continuous JAM alert
Maintenance	When the maintenance timing is reached.
Service call	When pressing Service call.
Toner send request	When the toner order automatic send setting is
	reached.
Toner collection request	Revision of the toner installation date (only for
	a new product)
Alert resend	

27-9	
Purpose	Setting
Function (Purpose)	Used to set the paper transport time recording YES/NO threshold value and shading gain adjustment retry number. (FSS function)
Section	

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2) is saved.

	Item/Display	Content	Setting range	Default value
Α	FEED TIME1	Threshold value of paper transport time between sensors (Machine)	0 - 100	50(%)
В	FEED TIME2	Threshold value of paper transport time between sensors (SPF)	0 - 100	50(%)
С	GAIN ADJUSTMENT RETRY	Threshold value of the gain adjustment retry number	0 - 20	11 (TIMES)
D	JAM ALERT	Continuous JAM alert judgment threshold value (Alert judgment threshold value for continuous JAM's) (Setting of the number of JAM's continuously made at which it is judged as an alert.)	1 - 100	10 (TIMES)

- \* Items A, B: 0%, standard passing time between sheets of paper; 100%, time for judgment as a jam between sheets of paper.
- \* Item C: Because of a trouble in shading operation, the number of retry is actually not registered.

27-10	
Purpose	Data clear
Function (Purpose)	Used to clear the trouble prediction history information. (FSS function)
Section	

### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The history information of trouble prediction is cleared.

Target history	Serial communication retry history
	High density process control error history
	Halftone process control error history
	Automatic registration adjustment error history
	Scanner gain adjustment retry history
	Paper transport time between sensors

27-11		
Purpose	Others	
Function (Purpose)	Used to check the serial communication retry number and the scanner gain adjustment retry number history. (FSS function)	
Section		

The serial communication retry number history and the scanner gain adjustment retry number history are displayed.

Item name	Occurrence date (Display)	Retry number	Content
LSU1	Year/month/day hour: min.: sec.	8 digits	Serial communication
LSU2	Year/month/day hour: min.: sec.	8 digits	retry number history display
DESK1	Year/month/day hour: min.: sec.	8 digits	
DESK2	Year/month/day hour: min.: sec.	8 digits	
FINISHER1	Year/month/day hour: min.: sec.	8 digits	
FINISHER2	Year/month/day hour: min.: sec.	8 digits	
SCAN GAIN ADJ1	Year/month/day hour: min.: sec.	8 digits	Scanner gain adjustment retry
SCAN GAIN ADJ2	Year/month/day hour: min.: sec.	8 digits	history
SCAN GAIN ADJ3	Year/month/day hour: min.: sec.	8 digits	
SCAN GAIN ADJ4	Year/month/day hour: min.: sec.	8 digits	
SCAN GAIN ADJ5	Year/month/day hour: min.: sec.	8 digits	Scanner gain adjustment retry history

27-13			
Purpose	Others		
Function (Purpose)	Used to check the history of paper transport time between sensors. (FSS function)		
Section			
Operation/Procedure	•		

Change the display with scroll key.

27-12	
Purpose	Others
Function (Purpose)	Used to check the high density, halftone process control and the automatic registration adjustment error history. (FSS Function)
Section	

### Operation/Procedure

The high density, halftone process control and the automatic registration adjustment error history is displayed.

HV_ERR1	High density process control error history 1
HV_ERR2	High density process control error history 2
HV_ERR3	High density process control error history 3
HV_ERR4	High density process control error history 4
HV_ERR5	High density process control error history 5
H_TONE ERR1	Halftone process control error history 1
H_TONE ERR2	Halftone process control error history 2
H_TONE ERR3	Halftone process control error history 3
H_TONE ERR4	Halftone process control error history 4
H_TONE ERR5	Halftone process control error history 5
AUTO REG ADJ1	Automatic registration adjustment error history 1
AUTO REG ADJ2	Automatic registration adjustment error history 2
AUTO REG ADJ3	Automatic registration adjustment error history 3
AUTO REG ADJ4	Automatic registration adjustment error history 4
AUTO REG ADJ5	Automatic registration adjustment error history 5

	Item/Display	Content	Occurrence date	Code between sensors	Passing time	Reference passing time
Main unit	FEED TIME1	History of paper transport time between sensors 1	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME2	History of paper transport time between sensors 2	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME3	History of paper transport time between sensors 3	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME4	History of paper transport time between sensors 4	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME5	History of paper transport time between sensors 5	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME6	History of paper transport time between sensors 6	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME7	History of paper transport time between sensors 7	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME8	History of paper transport time between sensors 8	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME9	History of paper transport time between sensors 9	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)
	FEED TIME10	History of paper transport time between sensors 10	Year/month/day hour: min.: sec.	5 digits	5 digits (ms)	5 digits (ms)

	Item/Display	Content	Occurrence date	Code between sensors	Passing time	Reference passing time
RSPF	FEED TIME1 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 1	hour: min.: sec.			
	FEED TIME2 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 2	hour: min.: sec.			
	FEED TIME3 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 3	hour: min.: sec.			
	FEED TIME4 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 4	hour: min.: sec.			
	FEED TIME5 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 5	hour: min.: sec.			
	FEED TIME6 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 6	hour: min.: sec.			
	FEED TIME7 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 7	hour: min.: sec.			
	FEED TIME8 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 8	hour: min.: sec.			
	FEED TIME9 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 9	hour: min.: sec.			
	FEED TIME10 (SPF)	History of paper transport time between SPF	Year/month/day	5 digits	5 digits (ms)	5 digits (ms)
		sensors 10	hour: min.: sec.			

27-14			
Purpose	Setting		
Function (Purpose)	Used to set the FSS function connection test mode.		
Section			

1) Enter the set value with 10-key.

0	Disable (Default)
1	Enable

2) Press [OK] key.

The set value in step 1) is saved.

27-15	
Purpose	Operation test/check
Function (Purpose)	Used to display the FSS connection status.
Section	

### Operation/Procedure

The FSS operating status is displayed.

Item/Display	Content	S	etting range	Default value
FSS CONNECTION	Used to display the	0	Not	0
	FSS connection		operated	
	status.	1	Operated	

27-16		
Purpose	Setting	
Function (Purpose)	Used to set the FSS alert send.	
Section		

### Operation/Procedure

- Enter the set value with 10-key.
   The value for the FSS alert operation specification is set.
- 2) Press [OK] key.

Item/Display Content		tent	Setting range	Default value	
Α	MAINTENAN CE ALERT	Maintenance alert send	Alert send Enable	0	0
	(0:YES 1:NO)	Enable setting	Alert send Disable	1	
В	TONER ORDER	Toner order alert send	Alert send Enable	0	0
	ALERT (0:YES 1:NO)	Enable setting	Alert send Disable	1	
С	TONER CTRG ALERT	Toner cartridge	Alert send Enable	0	0
	(0:YES 1:NO)	replacement alert send Enable setting	Alert send Disable	1	
D	JAM ALERT (0:YES 1:NO)	Continuous JAM alert	Alert send Enable	0	0
		send Enable setting	Alert send Disable	1	
Е	TROUBLE ALERT	Trouble alert send Enable	Alert send Enable	0	0
	(0:YES 1:NO)	setting	Alert send Disable	1	
F	PAPER ORDER	Paper order alert send	Alert send Enable	0	0
	ALERT (0:YES 1:NO)	Enable setting	Alert send Disable	1	

27-17	
Purpose	Setting
Function (Purpose)	Used to set the FSS paper order alert.
Section	

### Operation/Procedure

- 1) Select an item to be set.
- Enter the set value with 10-key.
   The value for the FSS paper order alert operation specification is set.
- 3) Press [SET] key.

Item/ Display	Content	Setting range	Default value	NOTE
PAPER	Setting of paper kind	0 - 2	0	0: Standard
TYPE SET	for paper order alert			paper and
SEI				recycled paper 1: Standard
				paper only
				2: Recycled
				paper only
A3	Paper order number	500 -	1250	Unit: No. of
7.0	setting [Number of	5000	1200	sheets for a box
	sheets] (A3)			
A4	Paper order number	500 -	2500	Unit: No. of
	setting [Number of	5000		sheets for a box
	sheets] (A4)			
B4	Paper order number	500 -	2500	Unit: No. of
	setting [Number of	5000		sheets for a box
B5	sheets] (B4) Paper order number	500 -	2500	Unit: No. of
БЭ	setting [Number of	5000	2300	sheets for a box
	sheets] (B5)	0000		checto for a box
A3:	Paper order alert	500 -	1000	Unit: No. of alert
FIRST	number setting (A3)	10000		sheets for the
	(Number of used			first time
	sheets)			
A4:	Paper order alert	500 -	1000	Unit: No. of alert
FIRST	number setting (A4)	10000		sheets for the first time
	(Number of used sheets)			iirst time
B4:	Paper order alert	500 -	1000	Unit: No. of alert
FIRST	number setting (B4)	10000	1000	sheets for the
	(Number of used			first time
	sheets)			
B5:	Paper order alert	500 -	1000	Unit: No. of alert
FIRST	number setting (B5)	10000		sheets for the
	(Number of used			first time
	sheets)			

27-18		
Purpose	Data clear	
Function (Purpose)	Used to clear the FSS paper feed retry counter.	
Section		

- 1) Select an item to be cleared.
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

The target counter is cleared.

Item/Display	Content
TRAY1	Tray 1 paper feed retry counter
TRAY2	Tray 2 paper feed retry counter
TRAY3	Tray 3 paper feed retry counter
TRAY4	Tray 4 paper feed retry counter
MFT	Manual paper feed retry counter
LCC	LCC paper feed retry counter

# 30

Section

30-1	
Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the sen-
	sors and the detectors in other than the

### Operation/Procedure

The operating conditions of the sensors and detectors are displayed.

The sensors and the detectors which are turned ON are highlighted.

PPD1 Paper transport detector 1 PPD2 Paper transport detector 2 POD1 Paper exit detector 1 POD2 Paper exit detector 2 POD3 Paper exit detector 3 TFD2 Paper exit tray full detector (Face-down tray) TFD3 Paper exit tray full detector (Right paper exit tray) SHPOS Shifter home positions sensor DSW_R ADU open/close detector DSW_C Transport cover open/close detector (Paper feed tray 1) DSW_F Front cover open/close detector DHPD_CL OPC drum rotation sensor (CL) DHPD_K OPC drum rotation sensor (BK) TNFD Waste toner full detector HLPCD Fusing roller pressure detector DSW_C2 Transport cover open/close detector (Paper feed tray 2) PRTPD Paper exit tray paper detector (Right paper exit tray) TTUD_CL Transfer mode detector (CL) TTUD_K Transfer mode detector (BK)		
POD1 Paper exit detector 1 POD2 Paper exit detector 2 POD3 Paper exit detector 3 TFD2 Paper exit tray full detector (Face-down tray) TFD3 Paper exit tray full detector (Right paper exit tray) SHPOS Shifter home positions sensor DSW_R ADU open/close detector DSW_C Transport cover open/close detector (Paper feed tray 1) DSW_F Front cover open/close detector DHPD_CL OPC drum rotation sensor (CL) DHPD_K OPC drum rotation sensor (BK) TNFD Waste toner full detector HLPCD Fusing roller pressure detector DSW_C2 Transport cover open/close detector (Paper feed tray 2) PRTPD Paper exit tray paper detector (Right paper exit tray) 1TUD_CL Transfer mode detector (BK)	PPD1	Paper transport detector 1
POD2 Paper exit detector 2 POD3 Paper exit detector 3 TFD2 Paper exit tray full detector (Face-down tray) TFD3 Paper exit tray full detector (Right paper exit tray) SHPOS Shifter home positions sensor DSW_R ADU open/close detector DSW_C Transport cover open/close detector (Paper feed tray 1) DSW_F Front cover open/close detector DHPD_CL OPC drum rotation sensor (CL) DHPD_K OPC drum rotation sensor (BK) TNFD Waste toner full detector HLPCD Fusing roller pressure detector DSW_C2 Transport cover open/close detector (Paper feed tray 2) PRTPD Paper exit tray paper detector (Right paper exit tray) TTUD_CL Transfer mode detector (BK)	PPD2	Paper transport detector 2
POD3 Paper exit detector 3  TFD2 Paper exit tray full detector (Face-down tray)  TFD3 Paper exit tray full detector (Right paper exit tray)  SHPOS Shifter home positions sensor  DSW_R ADU open/close detector  DSW_C Transport cover open/close detector (Paper feed tray 1)  DSW_F Front cover open/close detector  DHPD_CL OPC drum rotation sensor (CL)  DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  TTUD_CL Transfer mode detector (BK)	POD1	Paper exit detector 1
TFD2 Paper exit tray full detector (Face-down tray) TFD3 Paper exit tray full detector (Right paper exit tray) SHPOS Shifter home positions sensor DSW_R ADU open/close detector DSW_C Transport cover open/close detector (Paper feed tray 1) DSW_F Front cover open/close detector DHPD_CL OPC drum rotation sensor (CL) DHPD_K OPC drum rotation sensor (BK) TNFD Waste toner full detector HLPCD Fusing roller pressure detector DSW_C2 Transport cover open/close detector (Paper feed tray 2) PRTPD Paper exit tray paper detector (Right paper exit tray) 1TUD_CL Transfer mode detector (BK)	POD2	Paper exit detector 2
TFD3 Paper exit tray full detector (Right paper exit tray)  SHPOS Shifter home positions sensor  DSW_R ADU open/close detector  DSW_C Transport cover open/close detector (Paper feed tray 1)  DSW_F Front cover open/close detector  DHPD_CL OPC drum rotation sensor (CL)  DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  TTUD_CL Transfer mode detector (BK)	POD3	Paper exit detector 3
SHPOS Shifter home positions sensor  DSW_R ADU open/close detector  DSW_C Transport cover open/close detector (Paper feed tray 1)  DSW_F Front cover open/close detector  DHPD_CL OPC drum rotation sensor (CL)  DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  TUD_CL Transfer mode detector (BK)	TFD2	Paper exit tray full detector (Face-down tray)
DSW_R ADU open/close detector  DSW_C Transport cover open/close detector (Paper feed tray 1)  DSW_F Front cover open/close detector  DHPD_CL OPC drum rotation sensor (CL)  DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  TTUD_CL Transfer mode detector (BK)	TFD3	Paper exit tray full detector (Right paper exit tray)
DSW_C Transport cover open/close detector (Paper feed tray 1)  DSW_F Front cover open/close detector  DHPD_CL OPC drum rotation sensor (CL)  DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  TTUD_CL Transfer mode detector (BK)	SHPOS	Shifter home positions sensor
DSW_F Front cover open/close detector  DHPD_CL OPC drum rotation sensor (CL)  DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  TTUD_CL Transfer mode detector (BK)	DSW_R	ADU open/close detector
DHPD_CL OPC drum rotation sensor (CL) DHPD_K OPC drum rotation sensor (BK) TNFD Waste toner full detector HLPCD Fusing roller pressure detector DSW_C2 Transport cover open/close detector (Paper feed tray 2) PRTPD Paper exit tray paper detector (Right paper exit tray) 1TUD_CL Transfer mode detector (BK)	DSW_C	Transport cover open/close detector (Paper feed tray 1)
DHPD_K OPC drum rotation sensor (BK)  TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  1TUD_CL Transfer mode detector (CL)  1TUD_K Transfer mode detector (BK)	DSW_F	Front cover open/close detector
TNFD Waste toner full detector  HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  1TUD_CL Transfer mode detector (CL)  1TUD_K Transfer mode detector (BK)	DHPD_CL	OPC drum rotation sensor (CL)
HLPCD Fusing roller pressure detector  DSW_C2 Transport cover open/close detector (Paper feed tray 2)  PRTPD Paper exit tray paper detector (Right paper exit tray)  1TUD_CL Transfer mode detector (CL)  1TUD_K Transfer mode detector (BK)	DHPD_K	OPC drum rotation sensor (BK)
DSW_C2 Transport cover open/close detector (Paper feed tray 2) PRTPD Paper exit tray paper detector (Right paper exit tray) 1TUD_CL Transfer mode detector (CL) 1TUD_K Transfer mode detector (BK)	TNFD	Waste toner full detector
PRTPD Paper exit tray paper detector (Right paper exit tray)  1TUD_CL Transfer mode detector (CL)  1TUD_K Transfer mode detector (BK)	HLPCD	Fusing roller pressure detector
TTUD_CL Transfer mode detector (CL) TTUD_K Transfer mode detector (BK)	DSW_C2	Transport cover open/close detector (Paper feed tray 2)
1TUD_K Transfer mode detector (BK)	PRTPD	Paper exit tray paper detector (Right paper exit tray)
	1TUD_CL	Transfer mode detector (CL)
OTLID Consider transfer assisted detector	1TUD_K	Transfer mode detector (BK)
Secondary transfer position detector	2TUD	Secondary transfer position detector
WEBEND Web end detector (36cpm machine)	WEBEND	Web end detector (36cpm machine)

30-2		
Purpose	Operation test/check	
Function (Purpose)	Used to check the operations of the sensors and the detectors in the paper feed section and the control circuits.	
Section		

### Operation/Procedure

The operating conditions of the sensors and detectors are displayed.

The sensors and the detectors which are turned ON are highlighted.

CPFD1	Paper transport detector (Paper feed tray 1)
CLUD1	Paper feed tray upper limit sensor (Paper feed tray 1)
CPED1	Paper empty sensor (Paper feed tray 1)
CSPD1	Paper remaining quantity sensor (Paper feed tray 1)
CSS11	Paper feed tray size detector (Paper feed tray 1)(*1)
CSS12	
CSS13	
CSS14	
CPFD2	Paper transport detector (Paper feed tray 2)
CLUD2	Paper feed tray upper limit sensor (Paper feed tray 2)
CPED2	Paper empty sensor (Paper feed tray 2)
CSPD2	Paper remaining quantity sensor (Paper feed tray 2)
CSS21	Paper feed tray paper size detector (Paper feed tray 2)
CSS22	
CSS23	
CSS24	
CSS1	Paper feed tray 1 detector
CSS2	Paper feed tray 2 detector (*1)
CSS2SET	Desk installation detection
MPLD	Paper length detector (Manual paper feed tray)
MPED	Paper empty sensor (Manual paper feed tray)

<sup>\*1:</sup> Displayed, but not installed in some models.



33-2	
Purpose	Data clear
Function (Purpose)	Used to delete the ID (IDM) information of Felica card. (23cpm/31cpm(G) machine only)
Section	

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The ID (IDM) information of Felica card is deleted.

## 40

40-2	
Purpose	Adjustment/Setup
Function (Purpose)	Manual paper feed tray paper width sensor adjustment.
Section	Paper feed
0 " "	

### Operation/Procedure

- 1) Open the manual paper feed guide to the max. width (MAX).
- 2) Press [EXECUTE] key.
  - The max. width (MAX) detection level is recognized.
- 3) Open the manual paper feed guide to P1 width (A4).
- 4) Press [EXECUTE] key.
  - The P1 width (A4) detection level is recognized.
- 5) Open the manual paper feed guide to P2 width (A4R).
- 6) Press [EXECUTE] key.
  - The P2 width (A4R) detection level is recognized.
- 7) Open the manual paper feed guide to the min. width (MIN).
- 8) Press [EXECUTE] key.

The min. width (MIN) detection level is recognized.

When the above operation is not performed normally, "ERROR" is displayed. When completed normally, "COMPLETE" is displayed.

MAX POSITION Manual feed max. width		Manual feed max. width
	P1(A4)POSITION	Manual feed P1 position width (A4)
	P2(A4R)POSITION	Manual feed P2 position width (A4R)
	MIN POSITION	Manual feed min. width

40-7	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the adjustment value of the manual paper feed tray paper width sensor.
Section	Paper feed

### Operation/Procedure

- 1) Select a target item to be adjusted with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2) is saved.

	Item/Display		Content	Default value
	Α	MAX POSITION	Manual feed max. width	241
ſ	В	P1 (A4) POSITION	Manual feed P1 position width (A4)	231
	С	P2 (A4R) POSITION	Manual feed P2 position width (A4R)	140
	D	MIN POSITION	Manual feed min. width	19

## 41

41-1	
Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the document size sensor and the control circuit.
Section	

### Operation/Procedure

The operating conditions of the sensors and detectors are displayed.

The sensors and the detectors which are turned ON are high-lighted.

OCSW	Document cover status	Open: Normal display Close: Highlighted
PD1 - 7	Document detection sensor status	No document: Normal display Document present: Highlighted

41-2	
Purpose	Adjustment
Function (Purpose)	Used to adjust the document size sensor detection level.
Section	

#### Operation/Procedure

- Open the document cover, and press [EXECUTE] key without place a document on the document table.
  - The sensor level without document is recognized.
- 2) Set A3 (11" x 17") paper on the document table, and press [EXECUTE] key.

The sensor level when detecting the document is displayed.

When the above operation is normally completed, it is displayed.

41-3	
Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the document size sensor and the control circuit.
Section	

### Operation/Procedure

The detection output level (A/D value) of OCSW and the document sensor (PD1 - PD7) is displayed in real time.

The light receiving range of PD1 - PD7 is 1 - 255. (Default: 128)

Item/Display	Content	Detection level range
OCSW	Original cover SW	0-1 ("1" to Close)
PD1	Document detection 1	0 - 255
PD2	Document detection 2	0 - 255
PD3	Document detection 3	0 - 255
PD4	Document detection 4	0 - 255
PD5	Document detection 5	0 - 255
PD6	Document detection 6	0 - 255
PD7	Document detection 7	0 - 255



43-1	
Purpo	se

Setting

Function (Purpose) Used to set the fusing temperature in each

Section

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2) is saved.

### 18cpm/20cpm machine

			Cattina	Defau	It value (	SW-A)	Default value		(SW-B)
	Item/Display	Content	Setting range	Group	Group	Group	Group	Group	Group
			range	Α	В	С	Α	В	С
Α	HL_UM READY	Ready standby TH_UM set value	70 - 230	150	175	175	165	180	180
В	HL_LM READY	Ready standby TH_LM set value	30 - 200	110	110	110	120	120	120
С	HL_US READY	Ready standby TH_US set value	70 - 230	150	165	165	165	170	170
D	HL_UM PLAIN PAPER BW	Black-White plain paper TH_UM set value	70 - 230	135	160	160	150	165	165
Е	HL_LM PLAIN PAPER BW	Black-White plain paper TH_LM set value	30 - 200	125	140	140	140	140	140
F	HL_US PLAIN PAPER BW	Black-White plain paper TH_US set value	70 - 230	135	155	155	150	160	160
G	HL_UM PLAIN PAPER CL	Color plain paper TH_UM set value	70 - 230	145	170	170	160	175	175
Н	HL_LM PLAIN PAPER CL	Color plain paper TH_LM set value	30 - 200	135	140	140	140	140	140
ı	HL_US PLAIN PAPER CL	Color plain paper TH_US set value	70 - 230	145	160	160	160	165	165
J	WARMUP FUMON HL_US T	Fusing motor pre-rotation start TH_US set value	30 - 200	135	135	135	135	135	135
K	WARMUP FUMOFF	Fusing motor previous rotation complete time	0 - 255	30	30	30	30	30	30
L	WARM UP END TIME	Warm-up complete time	1 - 255	38	38	38	38	38	38
М	HL_UM HEAVY PAPER	Heavy paper TH_UM set value	70 - 230	170	170	170	170	170	170
N	HL_LM HEAVY PAPER	Heavy paper TH_LM set value	30 - 200	140	140	140	140	140	140
0	HL_US HEAVY PAPER	Heavy paper TH_US set value	70 - 230	170	170	170	170	170	170
Р	HL_UM OHP PAPER	OHP-TH_UM set value	70 - 230	175	175	175	175	175	175
Q	HL_LM OHP PAPER	OHP-TH_LM set value	30 - 200	135	135	135	135	135	135
R	HL_US OHP PAPER	OHP-TH_US set value	70 - 230	175	175	175	175	175	175
S	HL_UM ENV PAPER	Envelope TH_UM set value	70 - 230	180	170	170	180	170	170
Т	HL_LM ENV PAPER	Envelope TH_LM set value	30 - 200	145	135	135	145	135	135
U	HL_US ENV PAPER	Envelope TH_US set value	70 - 230	180	170	170	180	170	170
V	HL_UM GLOSS PAPER	Glossy paper TH_UM set value	70 - 230	180	180	180	180	180	180
W	HL_LM GLOSS PAPER	Glossy paper TH_LM set value	30 - 200	140	140	140	140	140	140
Χ	HL_US GLOSS PAPER	Glossy paper TH_US set value	70 - 230	180	180	180	180	180	180
Υ	HL_UM E-STAR	Preheating TH_UM set value	30 - 200	125	125	125	125	125	125
Z	HL_US E-STAR	Preheating TH_US set value	30 - 200	125	125	125	125	125	125
AA	HL_UM PRE-JOB	Preheat mode restore complete temperature	30 - 200	130	130	130	130	130	130
AB	HL_LM E-STAR	Preheating TH_LM set value	30 - 200	115	115	115	115	115	115
AC	HL_UM HEAVY2 PAPER	Heavy paper 2 TH_UM set value	70 - 230	175	175	175	175	175	175
AD	HL_LM HEAVY2 PAPER	Heavy paper 2 TH_LM set value	30 - 200	140	140	140	140	140	140
AE	HL_US HEAVY2 PAPER	Heavy paper 2 TH_SU set value	70 - 230	175	175	175	175	175	175
AF	HL_UM WARMUP_120L	TH_UM set value when Warm-Up at 120°C or below	70 - 230	145	170	170	160	175	175
AG	HL_LM WARMUP_120L	TH_LM set value when Warm-Up at 120°C or below	30 - 200	110	110	110	110	110	110
AH	HL_US WARMUP_120L	TH_US set value when Warm-Up at 120°C or below	70 - 230	135	150	150	150	155	155
Al	LO_WARMUP_TIME	AF - AH applying time (Timer from completion of Ready)	0 - 255	0	0	0	0	0	0
AJ	HL_UM WARMUP_120H	TH_UM set value when Warm-Up at 120°C or above	70 - 230	145	170	170	160	175	175
AK	HL LM WARMUP 120H	TH LM set value when Warm-Up at 120°C or above	30 - 200	110	110	110	110	110	110
AL	HL US WARMUP 120H	TH US set value when Warm-Up at 120°C or above	70 - 230	135	150	150	150	155	155
AM	HI_WARMUP_TIME	AJ - AL applying time	0 - 255	0	0	0	0	0	0
AN	HI_WU_FM_ON_TMP	(Timer from completion of Ready)  FM prior rotation start TH_US when Warm-Up at	30 - 200	105	105	105	105	105	105
		alpha °C or above							
AO	HI_WU_END_TIME	Warm-Up completion time when Warm-Up at alpha °C or above	0 - 255	38	38	38	38	38	38
AP	HI_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or above	70 - 230	145	170	170	160	175	175
AQ	HI_WARMUP_BORDER	Threshold value alpha to which SIM43-1-AN - AP is applied	1 - 119	70	70	70	70	70	70
AR	LO_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or below	70 - 230	145	170	170	160	175	175

ltem/Display			Setting	Default value (SW-A)			Default value (SW-B)		
		Content		Group A	Group B	Group C	Group <sub>A</sub>	Group B	Group C
AS	JOBEND FUMON TIME	Fusing motor after rotation time after completion of	0 - 255	5	5	5	5	5	5
		a job (Excluding heavy paper, OPH, and envelopes)							
AT	HL_UM_JOB_SET_TMP_B	Job enable temperature (B/W) when the upper roller	70 - 230	145	170	170	160	175	175
	W	temperature is lower than alpha °C							

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH US	Fusing thermistor sub (Front surface of paper)	HL US	Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group	Destination							
Group A	JAPAN	-	-	-	-			
Group B	U.S.A	CANADA	INCH	-	-			
Group C	EUROPE	U. K	AUS.	AB_B	CHINA			

### 23cpm machine

Itom/Diaplay			Cattina	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Setting range	Group A	Group B	Group C	Group A	Group B	Group C
Α	HL_UM READY	Ready standby TH_UM set value	70 - 230	95	110	110	125	115	125
В	HL_LM READY	Ready standby TH_LM set value	30 - 200	90	105	105	100	115	115
С	HL_US READY	Ready standby TH_US set value	70 - 230	135	140	140	150	145	150
D	HL_UM PLAIN PAPER BW	Black-White plain paper TH_UM set value	70 - 230	125	125	135	140	130	145
Е	HL_LM PLAIN PAPER BW	Black-White plain paper TH_LM set value	30 - 200	110	115	115	110	125	125
F	HL_US PLAIN PAPER BW	Black-White plain paper TH_US set value	70 - 230	135	135	140	150	140	150
G	HL_UM PLAIN PAPER CL	Color plain paper TH_UM set value	70 - 230	125	130	135	140	135	145
Н	HL_LM PLAIN PAPER CL	Color plain paper TH_LM set value	30 - 200	110	115	115	110	125	125
ı	HL_US PLAIN PAPER CL	Color plain paper TH_US set value	70 - 230	135	140	140	150	145	150
J	WARMUP FUMON HL_US T	Fusing motor pre-rotation start TH_US set value	30 - 200	30	30	30	30	30	30
K	WARMUP FUMOFF	Fusing motor previous rotation complete time	0 - 255	20	20	20	20	20	20
L	WARM UP END TIME	Warm-up complete time	1 - 255	16	16	16	16	16	16
М	HL_UM HEAVY PAPER	Heavy paper TH_UM set value	70 - 230	170	170	170	170	170	170
N	HL_LM HEAVY PAPER	Heavy paper TH_LM set value	30 - 200	120	120	120	120	120	120
0	HL_US HEAVY PAPER	Heavy paper TH_US set value	70 - 230	160	160	160	160	160	160
Р	HL_UM OHP PAPER	OHP-TH_UM set value	70 - 230	175	175	175	175	175	175
Q	HL_LM OHP PAPER	OHP-TH_LM set value	30 - 200	125	125	125	125	125	125
R	HL_US OHP PAPER	OHP-TH_US set value	70 - 230	175	175	175	175	175	175
S	HL_UM ENV PAPER	Envelope TH_UM set value	70 - 230	175	175	175	175	175	175
Т	HL_LM ENV PAPER	Envelope TH_LM set value	30 - 200	125	125	125	125	125	125
U	HL_US ENV PAPER	Envelope TH_US set value	70 - 230	175	175	175	175	175	175
V	HL_UM GLOSS PAPER	Glossy paper TH_UM set value	70 - 230	180	180	180	180	180	180
W	HL_LM GLOSS PAPER	Glossy paper TH_LM set value	30 - 200	120	120	120	120	120	120
Х	HL US GLOSS PAPER	Glossy paper TH_US set value	70 - 230	180	180	180	180	180	180
Υ	HL_UM E-STAR	Preheating TH_UM set value	30 - 200	85	105	100	85	105	100
Z	HL US E-STAR	Preheating TH US set value	30 - 200	125	135	130	125	135	130
AA	HL UM PRE-JOB	Preheat mode restore complete temperature	30 - 200	120	125	130	135	130	140
AB	HL LM E-STAR	Preheating TH LM set value	30 - 200	70	90	90	70	90	90
AC	HL UM HEAVY2 PAPER	Heavy paper 2 TH UM set value	70 - 230	170	170	170	170	170	170
AD	HL LM HEAVY2 PAPER	Heavy paper 2 TH LM set value	30 - 200	120	120	120	120	120	120
AE	HL US HEAVY2 PAPER	Heavy paper 2 TH SU set value	70 - 230	160	160	160	160	160	160
AF	HL_UM WARMUP_120L	TH_UM set value when Warm-Up at 120°C or below	70 - 230	135	145	145	140	140	145
AG	HL LM WARMUP 120L	TH LM set value when Warm-Up at 120°C or below	30 - 200	90	105	105	100	115	115
AH	HL_US WARMUP_120L	TH_US set value when Warm-Up at 120°C or below	70 - 230	125	135	135	135	135	145
Al	LO_WARMUP_TIME	AF - AH applying time	0 - 255	0	0	0	0	0	0
	_ <del>_</del>	(Timer from completion of Ready)							
AJ	HL_UM WARMUP_120H	TH_UM set value when Warm-Up at 120°C or above	70 - 230	135	145	145	140	140	145
AK	HL_LM WARMUP_120H	TH_LM set value when Warm-Up at 120°C or above	30 - 200	90	105	105	100	115	115
AL	HL_US WARMUP_120H	TH_US set value when Warm-Up at 120°C or above	70 - 230	125	135	135	135	135	145
AM	HI_WARMUP_TIME	AJ - AL applying time (Timer from completion of Ready)	0 - 255	0	0	0	0	0	0

			Setting	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content		Group A	Group B	Group C	Group A	Group B	Group C
AN	HI_WU_FM_ON_TMP	FM prior rotation start TH_US when Warm-Up at alpha °C or above	30 - 200	30	30	30	30	30	30
AO	HI_WU_END_TIME	Warm-Up completion time when Warm-Up at alpha °C or above	0 - 255	16	16	16	16	16	16
AP	HI_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or above	70 - 230	135	145	145	140	140	145
AQ	HI_WARMUP_BORDER	Threshold value alpha to which SIM43-1-AN - AP is applied	1 - 119	70	70	70	70	70	70
AR	LO_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or below	70 - 230	135	145	145	140	140	145
AS	JOBEND_FUMON_TIME	Fusing motor after rotation time after completion of a job (Excluding heavy paper, OPH, and envelopes)	0 - 255	5	5	5	5	5	5
AT	HL_UM_JOB_SET_TMP_ BW	Job enable temperature (B/W) when the upper roller temperature is lower than alpha °C	70 - 230	135	145	145	140	140	145

	TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
	TH_LM Fusing thermistor main (Back surface of paper)		HL_LM	Heater lamp main (Heat roller for front surface of paper)
Ī	TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

- SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.
- SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

  The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Ī	Group	Destination							
ſ	Group A	JAPAN	-	-	-	-			
Ī	Group B	U. S. A	CANADA	INCH	-	-			
ſ	Group C	EUROPE	U. K	AUS.	AB B	CHINA			

### 26cpm/31cpm machine

			0.40	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Setting range	Group	Group	Group	Group	Group	Group
			runge	Α	В	С	Α	В	С
Α	HL_UM READY	Ready standby TH_UM set value	70 - 230	95	110	110	120	120	125
В	HL_LM READY	Ready standby TH_LM set value	30 - 200	90	105	105	100	115	115
С	HL_US READY	Ready standby TH_US set value	70 - 230	145	150	155	155	160	165
D	HL_UM PLAIN PAPER BW	Black-White plain paper TH_UM set value	70 - 230	125	125	135	130	135	135
Е	HL_LM PLAIN PAPER BW	Black-White plain paper TH_LM set value	30 - 200	110	115	115	110	125	125
F	HL_US PLAIN PAPER BW	Black-White plain paper TH_US set value	70 - 230	145	145	155	150	155	160
G	HL_UM PLAIN PAPER CL	Color plain paper TH_UM set value	70 - 230	125	130	135	140	140	145
Н	HL_LM PLAIN PAPER CL	Color plain paper TH_LM set value	30 - 200	110	115	115	110	125	125
- 1	HL_US PLAIN PAPER CL	Color plain paper TH_US set value	70 - 230	145	150	155	155	160	165
J	WARMUP FUMON HL_US T	Fusing motor pre-rotation start TH_US set value	30 - 200	30	30	30	30	30	30
K	WARMUP FUMOFF	Fusing motor previous rotation complete time	0 - 255	20	20	20	20	20	20
L	WARM UP END TIME	Warm-up complete time	1 - 255	16	16	16	16	16	16
М	HL_UM HEAVY PAPER	Heavy paper TH_UM set value	70 - 230	160	160	160	160	160	160
N	HL_LM HEAVY PAPER	Heavy paper TH_LM set value	30 - 200	120	120	120	120	120	120
0	HL_US HEAVY PAPER	Heavy paper TH_US set value	70 - 230	150	150	150	150	150	150
Р	HL_UM OHP PAPER	OHP-TH_UM set value	70 - 230	175	175	175	175	175	175
Q	HL_LM OHP PAPER	OHP-TH_LM set value	30 - 200	125	125	125	125	125	125
R	HL_US OHP PAPER	OHP-TH_US set value	70 - 230	175	175	175	175	175	175
S	HL_UM ENV PAPER	Envelope TH_UM set value	70 - 230	175	175	175	175	175	175
Т	HL_LM ENV PAPER	Envelope TH_LM set value	30 - 200	125	125	125	125	125	125
U	HL_US ENV PAPER	Envelope TH_US set value	70 - 230	175	175	175	175	175	175
V	HL_UM GLOSS PAPER	Glossy paper TH_UM set value	70 - 230	180	180	180	180	180	180
W	HL_LM GLOSS PAPER	Glossy paper TH_LM set value	30 - 200	120	120	120	120	120	120
Χ	HL_US GLOSS PAPER	Glossy paper TH_US set value	70 - 230	180	180	180	180	180	180
Υ	HL_UM E-STAR	Preheating TH_UM set value	30 - 200	90	105	100	90	105	100
Z	HL_US E-STAR	Preheating TH_US set value	30 - 200	130	135	130	130	135	130
AA	HL_UM PRE-JOB	Preheat mode restore complete temperature	30 - 200	120	125	130	135	135	140
AB	HL_LM E-STAR	Preheating TH_LM set value	30 - 200	70	90	90	70	90	90
AC	HL_UM HEAVY2 PAPER	Heavy paper 2 TH_UM set value	70 - 230	170	170	170	170	170	170
AD	HL_LM HEAVY2 PAPER	Heavy paper 2 TH_LM set value	30 - 200	120	120	120	120	120	120
AE	HL_US HEAVY2 PAPER	Heavy paper 2 TH_SU set value	70 - 230	160	160	160	160	160	160
AF	HL_UM WARMUP_120L	TH_UM set value when Warm-Up at 120°C or below	70 - 230	135	140	145	140	140	150

			Setting	Defau	It value (	SW-A)	Default value (SW-B)			
	Item/Display	Content	range	Group	Group	Group	Group	Group	Group	
AG	HL LM WARMUP 120L	TH LM set value when Warm-Up at 120°C or below	30 - 200	90	<b>B</b> 105	<b>C</b>	<b>A</b> 100	<b>B</b> 115	115	
AH	HL US WARMUP 120L	TH US set value when Warm-Up at 120°C or below	70 - 230	135	140	150	150	140	155	
Al	LO_WARMUP_TIME	AF - AH applying time (Timer from completion of Ready)	0 - 255	0	0	0	0	0	0	
AJ	HL_UM WARMUP_120H	TH_UM set value when Warm-Up at 120°C or above	70 - 230	135	140	145	140	140	150	
AK	HL_LM WARMUP_120H	TH_LM set value when Warm-Up at 120°C or above	30 - 200	90	105	105	100	115	115	
AL	HL_US WARMUP_120H	TH_US set value when Warm-Up at 120°C or above	70 - 230	135	140	150	150	140	155	
AM	HI_WARMUP_TIME	AJ - AL applying time (Timer from completion of Ready)	0 - 255	0	0	0	0	0	0	
AN	HI_WU_FM_ON_TMP	FM prior rotation start TH_US when Warm-Up at alpha °C or above	30 - 200	30	30	30	30	30	30	
AO	HI_WU_END_TIME	Warm-Up completion time when Warm-Up at alpha °C or above	0 - 255	16	16	16	16	16	16	
AP	HI_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or above	70 - 230	135	140	145	140	140	150	
AQ	HI_WARMUP_BORDER	Threshold value alpha to which SIM43-1-AN - AP is applied	1 - 119	70	70	70	70	70	70	
AR	LO_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or below	70 - 230	135	140	145	140	140	150	
AS	JOBEND_FUMON_TIME	Fusing motor after rotation time after completion of a job (Excluding heavy paper, OPH, and envelopes)	0 - 255	5	5	5	5	5	5	
AT	HL_UM_JOB_SET_TMP_BW	Job enable temperature (B/W) when the upper roller temperature is lower than alpha °C	70 - 230	135	140	145	140	140	150	

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH_US			Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group		Destination						
Group A	JAPAN	-	-	-	-			
Group B	U. S. A	CANADA	INCH	-	-			
Group C	EUROPE	U. K	AUS.	AB_B	CHINA			

### 36cpm machine

			Catting	Defau	It value (	SW-A)	Default value (SW-B)		
	Item/Display	Content	Setting range	Group	Group	Group	Group	Group	Group
			rungo	Α	В	С	Α	В	С
Α	HL_UM READY	Ready standby TH_UM set value	70 - 230	100	120	125	125	130	140
В	HL_LM READY	Ready standby TH_LM set value	30 - 200	90	105	105	110	115	115
С	HL_US READY	Ready standby TH_US set value	70 - 230	145	155	160	155	170	170
D	HL_UM PLAIN PAPER BW	Black-White plain paper TH_UM set value	70 - 230	125	130	145	130	140	145
E	HL_LM PLAIN PAPER BW	Black-White plain paper TH_LM set value	30 - 200	110	115	115	120	125	125
F	HL_US PLAIN PAPER BW	Black-White plain paper TH_US set value	70 - 230	140	145	160	145	155	160
G	HL_UM PLAIN PAPER CL	Color plain paper TH_UM set value	70 - 230	130	140	150	145	150	160
Н	HL_LM PLAIN PAPER CL	Color plain paper TH_LM set value	30 - 200	110	115	115	120	125	125
- 1	HL_US PLAIN PAPER CL	Color plain paper TH_US set value	70 - 230	145	155	160	155	170	170
J	WARMUP FUMON HL_US T	Fusing motor pre-rotation start TH_US set value	30 - 200	30	30	30	30	30	30
K	WARMUP FUMOFF	Fusing motor previous rotation complete time	0 - 255	20	20	20	20	20	20
L	WARM UP END TIME	Warm-up complete time	1 - 255	16	16	16	16	16	16
М	HL_UM HEAVY PAPER	Heavy paper TH_UM set value	70 - 230	160	160	160	160	160	160
Ν	HL_LM HEAVY PAPER	Heavy paper TH_LM set value	30 - 200	120	120	120	120	120	120
0	HL_US HEAVY PAPER	Heavy paper TH_US set value	70 - 230	150	150	150	150	150	150
Р	HL_UM OHP PAPER	OHP-TH_UM set value	70 - 230	175	175	175	175	175	175
Q	HL_LM OHP PAPER	OHP-TH_LM set value	30 - 200	125	125	125	125	125	125
R	HL_US OHP PAPER	OHP-TH_US set value	70 - 230	175	175	175	175	175	175
S	HL_UM ENV PAPER	Envelope TH_UM set value	70 - 230	175	175	175	175	175	175
Т	HL_LM ENV PAPER	Envelope TH_LM set value	30 - 200	125	125	125	125	125	125
U	HL_US ENV PAPER	Envelope TH_US set value	70 - 230	175	175	175	175	175	175
V	HL_UM GLOSS PAPER	Glossy paper TH_UM set value	70 - 230	180	180	180	180	180	180
W	HL_LM GLOSS PAPER	Glossy paper TH_LM set value	30 - 200	120	120	120	120	120	120

			Settina	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	range	Group	Group	Group	Group	Group	Group
	<u></u>			Α	В	С	Α	В	С
X	HL_US GLOSS PAPER	Glossy paper TH_US set value	70 - 230	180	180	180	180	180	180
Υ	HL_UM E-STAR	Preheating TH_UM set value	30 - 200	100	120	115	100	120	115
Z	HL_US E-STAR	Preheating TH_US set value	30 - 200	145	155	150	145	155	150
AA	HL_UM PRE-JOB	Preheat mode restore complete temperature	30 - 200	135	135	145	140	145	155
AB	HL_LM E-STAR	Preheating TH_LM set value	30 - 200	70	90	90	70	90	90
AC	HL_UM HEAVY2 PAPER	Heavy paper 2 TH_UM set value	70 - 230	170	170	170	170	170	170
AD	HL_LM HEAVY2 PAPER	Heavy paper 2 TH_LM set value	30 - 200	120	120	120	120	120	120
AE	HL_US HEAVY2 PAPER	Heavy paper 2 TH_SU set value	70 - 230	170	170	170	170	170	170
AF	HL_UM WARMUP_120L	TH_UM set value when Warm-Up at 120°C or below	70 - 230	140	150	160	145	160	165
AG	HL_LM WARMUP_120L	TH_LM set value when Warm-Up at 120°C or below	30 - 200	90	105	105	110	115	115
AH	HL_US WARMUP_120L	TH_US set value when Warm-Up at 120°C or below	70 - 230	130	140	160	135	160	165
Al	LO_WARMUP_TIME	AF - AH applying time	0 - 255	10	10	10	10	10	10
<u> </u>		(Timer from completion of Ready)	<b>-</b> 0.000	4.40	450	400		400	405
AJ	HL_UM WARMUP_120H	TH_UM set value when Warm-Up at 120°C or above	70 - 230	140	150	160	145	160	165
AK	HL_LM WARMUP_120H	TH_LM set value when Warm-Up at 120°C or above	30 - 200	90	105	105	110	115	115
AL	HL_US WARMUP_120H	TH_US set value when Warm-Up at 120°C or above	70 - 230	130	140	160	135	160	165
AM	HI_WARMUP_TIME	AJ - AL applying time (Timer from completion of Ready)	0 - 255	10	10	10	10	10	10
AN	HI_WU_FM_ON_TMP	FM prior rotation start TH_US when Warm-Up at alpha °C or above	30 - 200	30	30	30	30	30	30
AO	HI_WU_END_TIME	Warm-Up completion time when Warm-Up at alpha °C or above	0 - 255	16	16	16	16	16	16
AP	HI_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or above	70 - 230	140	150	160	145	160	165
AQ	HI_WARMUP_BORDER	Threshold value alpha to which SIM43-1-AN - AP is applied	1 - 119	70	70	70	70	70	70
AR	LO_WU_JOB_SET_TMP	Job enable TH_UM temperature when Warm-Up at alpha °C or below	70 - 230	140	150	160	145	160	165
AS	JOBEND_FUMON_TIME Fusing motor after rotation time after completion of a job (Excluding heavy paper, OPH, and envelopes)		0 - 255	5	5	5	5	5	5
AT	HL_UM_JOB_SET_TMP_ BW	Job enable temperature (B/W) when the upper roller temperature is lower than alpha °C	70 - 230	140	150	160	145	160	165

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH_US	TH_US Fusing thermistor sub (Front surface of paper)		Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group		Destination						
Group A	JAPAN	-	-	-	-			
Group B	U. S. A	CANADA	INCH	-	-			
Group C	EUROPE	U. K	AUS.	AB B	CHINA			

#### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2) is saved.

### 18cpm/20cpm machine

			Catting	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Setting range	Group A	Group B	Group C	Group A	Group B	Group C
Α	HL_UM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_UM set value	70 - 230	135	160	160	150	165	165
В	HL_LM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_LM set value	30 - 200	125	140	140	140	140	140
С	HL_US PLAIN PAPER BW DUP	Black-White plain paper duplex TH_US set value	70 - 230	135	155	155	150	155	155
D	PLAIN PAPER BW DUP APP CNT	Black and white plain paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
Е	HL_UM PLAIN PAPER CL DUP	Color plain paper duplex TH_UM set value	70 - 230	145	170	170	160	175	175
F	HL_LM PLAIN PAPER CL DUP	Color plain paper duplex TH_LM set value	30 - 200	135	140	140	140	140	140
G	HL_US PLAIN PAPER CL DUP	Color plain paper duplex TH_US set value	70 - 230	145	160	160	160	165	165
Н	PLAIN PAPER CL DUP APP CNT	Color plain paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
- 1	HL_UM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
J	HL_LM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_LM set value	30 - 200	140	140	140	140	140	140
Κ	HL_US HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_US set value	70 - 230	170	170	170	170	170	170
L	HEAVY PAPER BW DUP APP CNT	Black and white heavy paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
M	HL_UM HEAVY PAPER CL DUP	Color heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
Ν	HL_LM HEAVY PAPER CL DUP	Color heavy paper duplex TH_LM set value	30 - 200	140	140	140	140	140	140
0	HL_US HEAVY PAPER CL DUP	Color heavy paper duplex TH_US set value	70 - 230	170	170	170	170	170	170
Р	HEAVY PAPER CL DUP APP CNT	Color heavy paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0

### **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group		Destination							
Group A	JAPAN	-	-	-	1				
Group B	U.S.A	CANADA	INCH	-	-				
Group C	EUROPE	U. K	AUS.	AB_B	CHINA				

### 23cpm machine

			Cattina	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Setting range	Group A	Group B	Group C	Group A	Group B	Group C
Α	HL_UM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_UM set value	70 - 230	125	135	135	140	140	145
В	HL_LM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_LM set value	30 - 200	110	115	115	110	125	125
С	HL_US PLAIN PAPER BW DUP	Black-White plain paper duplex TH_US set value	70 - 230	135	145	140	150	150	155
D	PLAIN PAPER BW DUP APP CNT	Black and white plain paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
Е	HL_UM PLAIN PAPER CL DUP	Color plain paper duplex TH_UM set value	70 - 230	125	135	135	140	140	150
F	HL_LM PLAIN PAPER CL DUP	Color plain paper duplex TH_LM set value	30 - 200	110	115	115	110	125	125
G	HL_US PLAIN PAPER CL DUP	Color plain paper duplex TH_US set value	70 - 230	135	145	140	150	150	155
Н	PLAIN PAPER CL DUP APP CNT	Color plain paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
I	HL_UM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170

			Setting	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display Content		range	Group A	Group B	Group C	Group A	Group B	Group C
J	HL_LM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_LM set value	30 - 200	120	120	120	120	120	120
K	HL_US HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_US set value	70 - 230	160	160	160	160	160	160
L	HEAVY PAPER BW DUP APP CNT	Black and white heavy paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
M	HL_UM HEAVY PAPER CL DUP	Color heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
Ν	HL_LM HEAVY PAPER CL DUP	Color heavy paper duplex TH_LM set value	30 - 200	120	120	120	120	120	120
0	HL_US HEAVY PAPER CL DUP	Color heavy paper duplex TH_US set value	70 - 230	160	160	160	160	160	160
Р	HEAVY PAPER CL DUP APP CNT	Color heavy paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

- SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.
- SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group		Destination							
Group A	JAPAN	ı	-	ı	-				
Group B	U. S. A	CANADA	INCH	-	-				
Group C	EUROPE	U. K	AUS.	AB_B	CHINA				

### 26cpm/31cpm machine

			Cattin	Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Setting range	Group	Group	Group	Group	Group	Group
			range	Α	В	С	Α	В	С
Α	HL_UM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_UM set value	70 - 230	125	125	135	130	135	135
В	HL_LM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_LM set value	30 - 200	110	115	115	110	125	125
С	HL_US PLAIN PAPER BW DUP	Black-White plain paper duplex TH_US set value	70 - 230	145	145	155	150	155	160
D	PLAIN PAPER BW DUP APP CNT	Black and white plain paper duplex applying	0 - 60	0	0	0	0	0	0
		number of sheets							
Е	HL_UM PLAIN PAPER CL DUP	Color plain paper duplex TH_UM set value	70 - 230	125	130	135	140	145	145
F	HL_LM PLAIN PAPER CL DUP	Color plain paper duplex TH_LM set value	30 - 200	110	115	115	110	125	125
G	HL_US PLAIN PAPER CL DUP	Color plain paper duplex TH_US set value	70 - 230	145	150	155	155	165	165
Н	PLAIN PAPER CL DUP APP CNT	Color plain paper duplex applying number of	0 - 60	0	0	0	0	0	0
		sheets							
-1	HL_UM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
J	HL_LM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_LM set value	30 - 200	120	120	120	120	120	120
K	HL_US HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_US set value	70 - 230	160	160	160	160	160	160
L	HEAVY PAPER BW DUP APP	Black and white heavy paper duplex applying	0 - 60	0	0	0	0	0	0
	CNT	number of sheets							
М	HL_UM HEAVY PAPER CL DUP	Color heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
Ν	HL_LM HEAVY PAPER CL DUP	Color heavy paper duplex TH_LM set value	30 - 200	120	120	120	120	120	120
0	HL_US HEAVY PAPER CL DUP	Color heavy paper duplex TH_US set value	70 - 230	160	160	160	160	160	160
Р	HEAVY PAPER CL DUP APP CNT	Color heavy paper duplex applying number of	0 - 60	0	0	0	0	0	0
		sheets							

### **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

- SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.
- SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group		Destination								
Group A	JAPAN	ı	_	_	-					
Group B	U. S. A	CANADA	INCH	-	-					
Group C	EUROPE	U. K	AUS.	AB_B	CHINA					

#### 36cpm machine

			Catting	Defau	lt value (	SW-A)	Defau	lt value (	SW-B) Group C 145 125 160 0 160 125 170 0 170 120 160 0
	Item/Display	Content	Setting range	Group A	Group B	Group C	Group A	Group B	
Α	A HL_UM PLAIN PAPER BW DUP Black-White plain paper duplex TH_UM set value		70 - 230	125	130	145	130	140	145
В	HL_LM PLAIN PAPER BW DUP	Black-White plain paper duplex TH_LM set value	30 - 200	110	115	115	120	125	125
С	HL_US PLAIN PAPER BW DUP	Black-White plain paper duplex TH_US set value	70 - 230	140	145	160	145	155	160
D	D PLAIN PAPER BW DUP APP CNT Black and white plain paper duplex applying number of sheets		0 - 60	0	0	0	0	0	0
Е	HL_UM PLAIN PAPER CL DUP	Color plain paper duplex TH_UM set value	70 - 230	130	140	150	145	150	160
F	HL_LM PLAIN PAPER CL DUP	DUP Color plain paper duplex TH_LM set value		110	115	115	120	125	125
G	HL_US PLAIN PAPER CL DUP	Color plain paper duplex TH_US set value	70 - 230	145	155	160	155	170	170
Н	PLAIN PAPER CL DUP APP CNT	Color plain paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
- 1	HL_UM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
J	HL_LM HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_LM set value	30 - 200	120	120	120	120	120	120
K	HL_US HEAVY PAPER BW DUP	Black-White heavy paper duplex TH_US set value	70 - 230	160	160	160	160	160	160
L	HEAVY PAPER BW DUP APP CNT	Black and white heavy paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0
М	HL_UM HEAVY PAPER CL DUP	Color heavy paper duplex TH_UM set value	70 - 230	170	170	170	170	170	170
Ν	HL_LM HEAVY PAPER CL DUP	Color heavy paper duplex TH_LM set value	30 - 200	120	120	120	120	120	120
0	HL_US HEAVY PAPER CL DUP	Color heavy paper duplex TH_US set value	70 - 230	160	160	160	160	160	160
Р	HEAVY PAPER CL DUP APP CNT	Color heavy paper duplex applying number of sheets	0 - 60	0	0	0	0	0	0

### **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for front surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

### List of destination groups

Group	Destination						
Group A	JAPAN	-	-	-	-		
Group B	U. S. A	CANADA	INCH	-	-		
Group C	EUROPE	U. K	AUS.	AB_B	CHINA		

Section

### Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- Press [OK] key.
   The set value in step 2) is saved.

Correction value: -49 - +49, Input value: Actually inputted value (1 - 99)

Correction value	-49	-25	-5	0	5	25	49
Input value	1	25	45	50	55	75	99

### 18cpm/20cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM READY LL	Correction value for TH_UM set value in Ready standby under LL environment	1 - 99	55
В	HL_LM READY LL	Correction value for TH_LM set value in Ready standby under LL environment	1 - 99	55
С	HL_US READY LL	Correction value for TH_US set value in Ready standby under LL environment	1 - 99	55
D	HL_UM PLAIN BW LL	Correction value for Black-White plain paper TH_UM set value under LL environment	1 - 99	55
Е	HL LM PLAIN BW LL	Correction value for Black-White plain paper TH LM set value under LL environment	1 - 99	55
F	HL_US PLAIN BW LL	Correction value for Black-White plain paper TH_US set value under LL environment	1 - 99	55
G	HL_UM PLAIN CL LL	Correction value for Color plain paper TH_UM set value under LL environment	1 - 99	55
Н	HL_LM PLAIN CL LL	Correction value for Color plain paper TH_LM set value under LL environment	1 - 99	55
ı	HL_US PLAIN CL LL	Correction value for Color plain paper TH_US set value under LL environment	1 - 99	55
J	WARMUP FUMON HL_US T LL	Correction value for fusing motor pre-rotation start TH US set value under LL environment	1 - 99	40
K	WARMUP FUMOFF LL	Fusing motor prior rotation completion time under LL environment	1 - 99	50
L	WARMUP END TIME LL	Correction value for warm-up complete time under LL environment	1 - 99	80
М	HL UM HEAVY LL	Correction value for heavy paper TH_UM set value under LL environment	1 - 99	55
N	HL LM HEAVY LL	Correction value for heavy paper TH_LM set value under LL environment	1 - 99	55
0	HL US HEAVY LL	Correction value for heavy paper TH_US set value under LL environment	1 - 99	55
Р	HL UM OHP LL	Correction value for OHP TH UM set value under LL environment	1 - 99	55
Q	HL LM OHP LL	Correction value for OHP TH LM set value under LL environment	1 - 99	55
R	HL US OHP LL	Correction value for OHP TH_US set value under LL environment	1 - 99	55
S	HL UM ENVELOPE LL	Correction value for envelope TH UM set value under LL environment	1 - 99	55
T	HL LM ENVELOPE LL	Correction value for envelope TH LM set value under LL environment	1 - 99	55
U	HL US ENVELOPE LL	Correction value for envelope TH_US set value under LL environment	1 - 99	55
V	HL UM GLOSS LL	Correction value for glossy paper TH_UM set value under LL environment	1 - 99	55
W	HL LM GLOSS LL	Correction value for glossy paper TH LM set value under LL environment	1 - 99	55
Х	HL US GLOSS LL	Correction value for glossy paper TH US set value under LL environment	1 - 99	55
Y	HL UM E-STAR LL	Correction value for preheating TH UM set value under LL environment	1 - 99	55
Z	HL US E-STAR LL	Correction value for preheating TH US set value under LL environment	1 - 99	55
AA	HL UM PRE-JOB LL	Correction value for the set value of TH_UM when restoring from preheating under LL environment	1 - 99	55
AB	HL LM E-STAR LL	Correction value for preheating TH LM set value under LL environment	1 - 99	55
AC	HL UM HEAVY2 CL LL	Correction value for heavy paper 2 TH UM set value under LL environment	1 - 99	55
AD	HL LM HEAVY2 CL LL	Correction value for heavy paper 2 TH LM set value under LL environment	1 - 99	55
AE	HL US HEAVY2 CL LL	Correction value for heavy paper 2 TH_US set value under LL environment	1 - 99	55
AF	HL UM WARMUP 120L LL	Correction value for TH UM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AG	HL LM WARMUP 120L LL	Correction value for TH_LM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AH	HL US WARMUP 120L LL	Correction value for TH US set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
Al	LO WARMUP TIME LL	Correction value for AF-AH applying time (timer from Ready complete) under LL environment	1 - 99	50
AJ	HL UM WARMUP 120H LL	Correction value for TH UM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AK	HL LM WARMUP 120H LL	Correction value for TH LM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AL	HL US WARMUP 120H LL	Correction value for TH_US set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AM	HI WU TIME LL	Correction value for AJ-AL applying time (timer from Ready complete) under LL environment	1 - 99	50
AN	HI_WU_FM_ON_TMP_LL	Correction value for FM prior rotation start TH_UM in Warm-Up at alpha °C or above under LL environment	1 - 99	40
AO	HI_WU_END_TIME_LL	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under LL environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH_UM temperature in at alpha °C or above under LL environment	1 - 99	55
AQ	HI_WARMUP_BORDER_LL	Correction value for the threshold value alpha applying SIM43-1-AN - AP under LL environment	1 - 99	50
AR	LO_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH_UM temperature in at alpha °C or below under LL environment	1 - 99	55
AS	JOBEND_FUMON_TIME LL	Correction value for the after rotation time when completing a job under LL environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_LL_B W	Correction value (BW) for Job enable TH_UM temperature when Warm-Up at alpha °C or above under LL environment	1 - 99	55

<sup>\*</sup> Item WARMUP END TIME LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

- $^{\star}\,$  Item D, F: When B5 size, correction of "-5" is made for item D and item F.
- $^{\star}\,$  Item G, I: When B5 size, correction of "-5" is made for item G and item I.

TH_UM	TH_UM Fusing thermistor main (Front surface of paper)		Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

### 23cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL UM READY LL	Correction value for TH UM set value in Ready standby under LL environment	1 - 99	55
В	HL_LM READY LL	Correction value for TH_LM set value in Ready standby under LL environment	1 - 99	55
С	HL_US READY LL	Correction value for TH_US set value in Ready standby under LL environment	1 - 99	55
D	HL UM PLAIN BW LL	Correction value for Black-White plain paper TH UM set value under LL environment	1 - 99	55
Е	HL LM PLAIN BW LL	Correction value for Black-White plain paper TH_LM set value under LL environment	1 - 99	55
F	HL US PLAIN BW LL	Correction value for Black-White plain paper TH US set value under LL environment	1 - 99	55
G	HL UM PLAIN CL LL	Correction value for Color plain paper TH_UM set value under LL environment	1 - 99	55
Н	HL LM PLAIN CL LL	Correction value for Color plain paper TH_LM set value under LL environment	1 - 99	55
ı	HL US PLAIN CL LL	Correction value for Color plain paper TH US set value under LL environment	1 - 99	55
J	WARMUP FUMON HL US T LL	Correction value for fusing motor pre-rotation start TH US set value under LL environment	1 - 99	40
K	WARMUP FUMOFF LL	Fusing motor prior rotation completion time under LL environment	1 - 99	50
L	WARMUP END TIME LL	Correction value for warm-up complete time under LL environment	1 - 99	80
M	HL UM HEAVY LL	Correction value for heavy paper TH_UM set value under LL environment	1 - 99	55
N	HL LM HEAVY LL	Correction value for heavy paper TH_LM set value under LL environment	1 - 99	55
0	HL US HEAVY LL	Correction value for heavy paper TH_US set value under LL environment	1 - 99	55
P	HL UM OHP LL	Correction value for OHP TH UM set value under LL environment	1 - 99	55
Q	HL LM OHP LL	Correction value for OHP TH_LM set value under LL environment	1 - 99	55
R	HL US OHP LL	Correction value for OHP TH US set value under LL environment	1 - 99	55
S	HL UM ENVELOPE LL	=	1 - 99	55
T	HL LM ENVELOPE LL	Correction value for envelope TH_UM set value under LL environment  Correction value for envelope TH_LM set value under LL environment	1 - 99	55
U	_	Correction value for envelope TH_Livi set value under LL environment	1 - 99	55
V	HL_US ENVELOPE LL			
W	HL_UM GLOSS LL	Correction value for glossy paper TH_UM set value under LL environment	1 - 99 1 - 99	55 55
-	HL_LM GLOSS LL	Correction value for glossy paper TH_LM set value under LL environment		
X	HL_US GLOSS LL	Correction value for glossy paper TH_US set value under LL environment	1 - 99	55
Y	HL_UM E-STAR LL	Correction value for preheating TH_UM set value under LL environment	1 - 99	55
Z	HL_US E-STAR LL	Correction value for preheating TH_US set value under LL environment	1 - 99	55
AA	HL_UM PRE-JOB LL	Correction value for the set value of TH_UM when restoring from preheating under LL environment	1 - 99	55
AB	HL_LM E-STAR LL	Correction value for preheating TH_LM set value under LL environment	1 - 99	55
AC	HL_UM HEAVY2 CL LL	Correction value for heavy paper 2 TH_UM set value under LL environment	1 - 99	55
AD	HL_LM HEAVY2 CL LL	Correction value for heavy paper 2 TH_LM set value under LL environment	1 - 99	55
AE	HL_US HEAVY2 CL LL	Correction value for heavy paper 2 TH_US set value under LL environment	1 - 99	55
AF	HL_UM WARMUP_120L LL	Correction value for TH_UM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AG	HL_LM WARMUP_120L LL	Correction value for TH_LM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AH	HL_US WARMUP_120L LL	Correction value for TH_US set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
Al	LO_WARMUP_TIME_LL	Correction value for AF-AH applying time (timer from Ready complete) under LL environment	1 - 99	50
AJ	HL_UM WARMUP_120H LL	Correction value for TH_UM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AK	HL_LM WARMUP_120H LL	Correction value for TH_LM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AL	HL_US WARMUP_120H LL	Correction value for TH_US set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AM	HI_WU_TIME_LL	Correction value for AJ-AL applying time (timer from Ready complete) under LL environment	1 - 99	50
AN	HI_WU_FM_ON_TMP_LL	Correction value for FM prior rotation start TH_UM in Warm-Up at alpha °C or above under LL environment	1 - 99	40
AO	HI_WU_END_TIME_LL	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under LL environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH_UM temperature in at alpha °C or above under LL environment	1 - 99	55
AQ	HI_WARMUP_BORDER_LL	Correction value for the threshold value alpha applying SIM43-1-AN - AP under LL environment	1 - 99	50
AR	LO_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH UM temperature in at alpha °C or below under LL environment	1 - 99	55
AS	JOBEND FUMON TIME LL	Correction value for the after rotation time when completing a job under LL environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_LL_	Correction value (BW) for Job enable TH UM temperature when Warm-Up at alpha °C or above	1 - 99	55
,	BW	under LL environment	. 55	

- \* Item WARMUP END TIME LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change
- \* Item D, F: When B5 size, correction of "-5" is made for item D and item F.
- \* Item G, I: When B5 size, correction of "-5" is made for item G and item I.

### **Code descriptions**

TH_UM Fusing thermistor main (Front surface of paper)		HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

### 26cpm/31cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL UM READY LL	Correction value for TH UM set value in Ready standby under LL environment	1 - 99	55
В	HL LM READY LL	Correction value for TH_LM set value in Ready standby under LL environment	1 - 99	55
С	HL US READY LL	Correction value for TH_US set value in Ready standby under LL environment	1 - 99	55
D	HL UM PLAIN BW LL	Correction value for Black-White plain paper TH UM set value under LL environment	1 - 99	55
Е	HL LM PLAIN BW LL	Correction value for Black-White plain paper TH_LM set value under LL environment	1 - 99	55
F	HL US PLAIN BW LL	Correction value for Black-White plain paper TH US set value under LL environment	1 - 99	55
G	HL UM PLAIN CL LL	Correction value for Color plain paper TH UM set value under LL environment	1 - 99	55
Н	HL LM PLAIN CL LL	Correction value for Color plain paper TH LM set value under LL environment	1 - 99	55
	HL US PLAIN CL LL	Correction value for Color plain paper TH US set value under LL environment	1 - 99	55
J	WARMUP FUMON HL US T LL	Correction value for fusing motor pre-rotation start TH US set value under LL environment	1 - 99	40
K	WARMUP FUMOFF LL	Fusing motor prior rotation completion time under LL environment	1 - 99	50
L	WARMUP END TIME LL	Correction value for warm-up complete time under LL environment	1 - 99	80
M	HL UM HEAVY LL	Correction value for heavy paper TH UM set value under LL environment	1 - 99	55
N	HL LM HEAVY LL	Correction value for heavy paper TH_OW set value under LL environment	1 - 99	55
0	HL US HEAVY LL	Correction value for heavy paper TH_EM set value under LL environment	1 - 99	55
Р	HL UM OHP LL	Correction value for OHP TH_UM set value under LL environment	1 - 99	55
Q	HL LM OHP LL	Correction value for OHP TH LM set value under LL environment	1 - 99	55
R	HL US OHP LL	Correction value for OHP TH US set value under LL environment	1 - 99	55
			1 - 99	
S	HL_UM ENVELOPE LL	Correction value for envelope TH_UM set value under LL environment	1 - 99	55 55
T	HL_LM ENVELOPE LL	Correction value for envelope TH_LM set value under LL environment		55
V	HL_US ENVELOPE LL	Correction value for envelope TH_US set value under LL environment	1 - 99	55
	HL_UM GLOSS LL	Correction value for glossy paper TH_UM set value under LL environment	1 - 99	55
W	HL_LM GLOSS LL	Correction value for glossy paper TH_LM set value under LL environment	1 - 99	55
X	HL_US GLOSS LL	Correction value for glossy paper TH_US set value under LL environment	1 - 99	55
Y	HL_UM E-STAR LL	Correction value for preheating TH_UM set value under LL environment	1 - 99	55
Z	HL_US E-STAR LL	Correction value for preheating TH_US set value under LL environment	1 - 99	55
AA	HL_UM PRE-JOB LL	Correction value for the set value of TH_UM when restoring from preheating under LL environment	1 - 99	55
AB	HL_LM E-STAR LL	Correction value for preheating TH_LM set value under LL environment	1 - 99	55
AC	HL_UM HEAVY2 CL LL	Correction value for heavy paper 2 TH_UM set value under LL environment	1 - 99	55
AD	HL_LM HEAVY2 CL LL	Correction value for heavy paper 2 TH_LM set value under LL environment	1 - 99	55
AE	HL_US HEAVY2 CL LL	Correction value for heavy paper 2 TH_US set value under LL environment	1 - 99	55
AF	HL_UM WARMUP_120L LL	Correction value for TH_UM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AG	HL_LM WARMUP_120L LL	Correction value for TH_LM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AH	HL_US WARMUP_120L LL	Correction value for TH_US set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
Al	LO_WARMUP_TIME_LL	Correction value for AF-AH applying time (timer from Ready complete) under LL environment	1 - 99	50
AJ	HL_UM WARMUP_120H LL	Correction value for TH_UM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AK	HL_LM WARMUP_120H LL	Correction value for TH_LM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AL	HL_US WARMUP_120H LL	Correction value for TH_US set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AM	HI_WU_TIME_LL	Correction value for AJ-AL applying time (timer from Ready complete) under LL environment	1 - 99	50
AN	HI_WU_FM_ON_TMP_LL	Correction value for FM prior rotation start TH_UM in Warm-Up at alpha °C or above under LL environment	1 - 99	40
AO	HI_WU_END_TIME_LL	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under LL environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH_UM temperature in at alpha °C or above under LL environment	1 - 99	55
AQ	HI_WARMUP_BORDER_LL	Correction value for the threshold value alpha applying SIM43-1-AN - AP under LL environment	1 - 99	50
AR	LO WU JOB SET TMP LL	Correction value for Job Enable TH UM temperature in at alpha °C or below under LL environment	1 - 99	55
AS	JOBEND FUMON TIME LL	Correction value for the after rotation time when completing a job under LL environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_LL_ BW	Correction value (BW) for Job enable TH_UM temperature when Warm-Up at alpha °C or above under LL environment	1 - 99	55

<sup>\*</sup> Item WARMUP END TIME LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

- $^{\star}\,$  Item D, F: When B5 size, correction of "-5" is made for item D and item F.
- \* Item G, I: When B5 size, correction of "-5" is made for item G and item I.

### **Code descriptions**

TH_UM	TH_UM Fusing thermistor main (Front surface of paper)		Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

# 36cpm machine

Item/Display		Content	Setting range	Default value
Α	HL_UM READY LL	Correction value for TH_UM set value in Ready standby under LL environment	1 - 99	55
В	HL LM READY LL	Correction value for TH_LM set value in Ready standby under LL environment	1 - 99	55
С	HL_US READY LL	Correction value for TH_US set value in Ready standby under LL environment	1 - 99	55
D	HL UM PLAIN BW LL	Correction value for Black-White plain paper TH UM set value under LL environment	1 - 99	55
Е	HL LM PLAIN BW LL	Correction value for Black-White plain paper TH_LM set value under LL environment	1 - 99	55
F	HL US PLAIN BW LL	Correction value for Black-White plain paper TH_US set value under LL environment	1 - 99	55
G	HL UM PLAIN CL LL	Correction value for Color plain paper TH UM set value under LL environment	1 - 99	55
Н	HL_LM PLAIN CL LL	Correction value for Color plain paper TH_LM set value under LL environment	1 - 99	55
ı	HL US PLAIN CL LL	Correction value for Color plain paper TH_US set value under LL environment	1 - 99	55
J	WARMUP FUMON HL US T LL	Correction value for fusing motor pre-rotation start TH_US set value under LL environment	1 - 99	40
K	WARMUP FUMOFF LL	Fusing motor prior rotation completion time under LL environment	1 - 99	50
L	WARMUP END TIME LL	Correction value for warm-up complete time under LL environment	1 - 99	80
М	HL UM HEAVY LL	Correction value for heavy paper TH UM set value under LL environment	1 - 99	55
N	HL LM HEAVY LL	Correction value for heavy paper TH_LM set value under LL environment	1 - 99	55
0	HL US HEAVY LL	Correction value for heavy paper TH_US set value under LL environment	1 - 99	55
Р	HL UM OHP LL	Correction value for OHP TH UM set value under LL environment	1 - 99	55
Q	HL LM OHP LL	Correction value for OHP TH LM set value under LL environment	1 - 99	55
R	HL US OHP LL	Correction value for OHP TH_US set value under LL environment	1 - 99	55
S	HL UM ENVELOPE LL	Correction value for envelope TH UM set value under LL environment	1 - 99	55
T	HL LM ENVELOPE LL	Correction value for envelope TH_LM set value under LL environment	1 - 99	55
U	HL US ENVELOPE LL	Correction value for envelope TH_US set value under LL environment	1 - 99	55
V	HL UM GLOSS LL	Correction value for glossy paper TH_UM set value under LL environment	1 - 99	55
W	HL LM GLOSS LL	Correction value for glossy paper TH_LM set value under LL environment	1 - 99	55
X	HL US GLOSS LL	Correction value for glossy paper TH_LIN set value under LL environment	1 - 99	55
Y	HL UM E-STAR LL	Correction value for preheating TH UM set value under LL environment	1 - 99	55
Z	HL US E-STAR LL	Correction value for preheating TH_US set value under LL environment	1 - 99	55
AA	HL UM PRE-JOB LL	Correction value for the set value of TH_UM when restoring from preheating under LL environment	1 - 99	55
AB	HL LM E-STAR LL	Correction value for preheating TH LM set value under LL environment	1 - 99	55
AC	HL UM HEAVY2 CL LL	Correction value for heavy paper 2 TH_UM set value under LL environment	1 - 99	55
AD	HL LM HEAVY2 CL LL	Correction value for heavy paper 2 TH_UM set value under LL environment	1 - 99	55
AE	HL US HEAVY2 CL LL	Correction value for heavy paper 2 TH_LW set value under LL environment	1 - 99	55
AF	HL UM WARMUP 120L LL	Correction value for TH_UM set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
AG	HL LM WARMUP 120L LL	Correction value for TH_OW set value in Warm-Op at 120°C or below under LL environment	1 - 99	55
AH	HL US WARMUP 120L LL	Correction value for TH_LIN set value in Warm-Up at 120°C or below under LL environment	1 - 99	55
Al	LO WARMUP TIME LL	Correction value for AF-AH applying time (timer from Ready complete) under LL environment	1 - 99	50
AJ	HL UM WARMUP 120H LL	Correction value for TH_UM set value in Warm-Up at 120°C or above under LL environment	1 - 99	55
AK	HL LM WARMUP 120H LL	Correction value for TH_DM set value in Warm-Up at 120 °C or above under LL environment	1 - 99	55
			1 - 99	
AL AM	HL_US WARMUP_120H LL HI WU TIME LL	Correction value for TH_US set value in Warm-Up at 120°C or above under LL environment	1 - 99	55 50
AN	HI_WU_FM_ON_TMP_LL	Correction value for AJ-AL applying time (timer from Ready complete) under LL environment	1 - 99	40
		Correction value for FM prior rotation start TH_UM in Warm-Up at alpha °C or above under LL environment		
AO	HI_WU_END_TIME_LL	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under LL environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH_UM temperature in at alpha °C or above under LL environment	1 - 99	55
AQ	HI_WARMUP_BORDER_LL	Correction value for the threshold value alpha applying SIM43-1-AN - AP under LL environment	1 - 99	50
AR	LO_WU_JOB_SET_TMP_LL	Correction value for Job Enable TH_UM temperature in at alpha °C or below under LL environment	1 - 99	55
AS	JOBEND_FUMON_TIME LL	Correction value for the after rotation time when completing a job under LL environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_LL_B W	Correction value (BW) for Job enable TH_UM temperature when Warm-Up at alpha °C or above under LL environment	1 - 99	55

<sup>\*</sup> Item WARMUP END TIME LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

- \* Item D, F: When B5 size, correction of "-5" is made for item D and item F.
- $^{\star}\,$  Item G, I: When B5 size, correction of "-5" is made for item G and item I.

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	TH_LM Fusing thermistor main (Back surface of paper)		Heater lamp main (Heat roller for back surface of paper)
TH US	Fusing thermistor sub (Front surface of paper)	HL US	Heater lamp sub (Heat roller for front surface of paper)

43-21

Purpose Adjustment/Setup

Function (Purpose)

Used to set the environment correction under high temperature and high humidity (H/H) for the fusing temperature setting (SIM 43-1) in each paper mode.

Section

# Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2 is saved.

Correction value: -49 - +49, Input value: Actually inputted value (1 - 99)

Correction value	-49	-25	-5	0	5	25	49
Input value	1	25	45	50	55	75	99

# 18cpm/20cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM READY HH	Correction value for TH_UM set value in Ready standby under HH environment	1 - 99	50
В	HL_LM READY HH	Correction value for TH_LM set value in Ready standby under HH environment	1 - 99	50
С	HL_US READY HH	Correction value for TH_US set value in Ready standby under HH environment	1 - 99	50
D	HL_UM PLAIN BW HH	Correction value for Black-White plain paper TH_UM set value under HH environment	1 - 99	50
Е	HL_LM PLAIN BW HH	Correction value for Black-White plain paper TH_LM set value under HH environment	1 - 99	50
F	HL_US PLAIN BW HH	Correction value for Black-White plain paper TH_US set value under HH environment	1 - 99	50
G	HL_UM PLAIN CL HH	Correction value for Color plain paper TH_UM set value under HH environment	1 - 99	50
Н	HL_LM PLAIN CL HH	Correction value for Color plain paper TH_LM set value under HH environment	1 - 99	50
_	HL_US PLAIN CL HH	Correction value for Color plain paper TH_US set value under HH environment	1 - 99	50
J	WARMUP FUMON HL_US T HH	Correction value for fusing motor pre-rotation start TH_US set value under HH environment	1 - 99	50
K	WARMUP FUMOFF HH	Fusing motor prior rotation completion time under HH environment	1 - 99	50
L	WARMUP END TIME HH	Correction value for warm-up complete time under HH environment	1 - 99	50
М	HL_UM HEAVY HH	Correction value for heavy paper TH_UM set value under HH environment	1 - 99	50
Ν	HL_LM HEAVY HH	Correction value for heavy paper TH_LM set value under HH environment	1 - 99	50
0	HL US HEAVY HH	Correction value for heavy paper TH US set value under HH environment	1 - 99	50
Р	HL_UM OHP HH	Correction value for OHP TH_UM set value under HH environment	1 - 99	50
Q	HL LM OHP HH	Correction value for OHP TH LM set value under HH environment	1 - 99	50
R	HL US OHP HH	Correction value for OHP TH US set value under HH environment	1 - 99	50
S	HL UM ENVELOPE HH	Correction value for envelope TH UM set value under HH environment	1 - 99	50
Т	HL LM ENVELOPE HH	Correction value for envelope TH_LM set value under HH environment	1 - 99	50
U	HL US ENVELOPE HH	Correction value for envelope TH US set value under HH environment	1 - 99	50
V	HL UM GLOSS HH	Correction value for glossy paper TH_UM set value under HH environment	1 - 99	50
W	HL LM GLOSS HH	Correction value for glossy paper TH_LM set value under HH environment	1 - 99	50
Х	HL US GLOSS HH	Correction value for glossy paper TH_US set value under HH environment	1 - 99	50
Y	HL UM E-STAR HH	Correction value for preheating TH_UM set value under HH environment	1 - 99	50
Z	HL US E-STAR HH	Correction value for preheating TH_US set value under HH environment	1 - 99	50
AA	HL UM PRE-JOB HH	Correction value for the set value of TH_UM when restoring from preheating under HH	1 - 99	50
,		environment		
AB	HL LM E-STAR HH	Correction value for preheating TH_LM set value under HH environment	1 - 99	50
AC	HL_UM HEAVY2 CL HH	Correction value for heavy paper 2 TH_UM set value under HH environment	1 - 99	50
AD	HL LM HEAVY2 CL HH	Correction value for heavy paper 2 TH_LM set value under HH environment	1 - 99	50
ΑE	HL US HEAVY2 CL HH	Correction value for heavy paper 2 TH US set value under HH environment	1 - 99	50
AF	HL_UM WARMUP_120L HH	Correction value for TH_UM set value in Warm-Up at 120°C or below under HH environment	1 - 99	50
AG	HL LM WARMUP 120L HH	Correction value for TH_LM set value in Warm-Up at 120°C or below under HH environment	1 - 99	50
АН	HL US WARMUP 120L HH	Correction value for TH_US set value in Warm-Up at 120°C or below under HH environment	1 - 99	50
Al	LO WARMUP TIME HH	Correction value for AF-AH applying time (timer from Ready complete) under HH environment	1 - 99	50
AJ	HL_UM WARMUP_120H HH	Correction value for TH_UM set value in Warm-Up at 120°C or above under HH environment	1 - 99	50
AK	HL LM WARMUP 120H HH	Correction value for TH_LM set value in Warm-Up at 120°C or above under HH environment	1 - 99	50
AL	HL US WARMUP 120H HH	Correction value for TH_US set value in Warm-Up at 120°C or above under HH environment	1 - 99	50
AM	HI WU TIME HH	Correction value for AJ-AL applying time (timer from Ready complete) under HH environment	1 - 99	50
AN	HI_WU_FM_ON_TMP_HH	Correction value for FM prior rotation start TH_US in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AO	HI_WU_END_TIME_HH	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AQ	HI_WARMUP_BORDER_HH	Correction value for the threshold value alpha applying SIM43-1-AN - AP under HH environment	1 - 99	50
AR	LO_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or below under HH environment	1 - 99	50
AS	JOBEND_FUMON_TIME LL	Correction value for the after rotation time when completing a job under HH environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_HH_B	Correction value (BW) for Job enable TH_UM temperature when Warm-Up at alpha °C or above	1 - 99	50
7 11	W	under HH environment	1 33	- 50

\* Item WARMUP END TIME HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

# Code descriptions

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

# 23cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL UM READY HH	Correction value for TH UM set value in Ready standby under HH environment	1 - 99	50
В	HL LM READY HH	Correction value for TH_LM set value in Ready standby under HH environment	1 - 99	50
С	HL US READY HH	Correction value for TH US set value in Ready standby under HH environment	1 - 99	50
D	HL UM PLAIN BW HH	Correction value for Black-White plain paper TH UM set value under HH environment	1 - 99	50
Е	HL LM PLAIN BW HH	Correction value for Black-White plain paper TH_LM set value under HH environment	1 - 99	50
F	HL US PLAIN BW HH	Correction value for Black-White plain paper TH_US set value under HH environment	1 - 99	50
G	HL UM PLAIN CL HH	Correction value for Color plain paper TH UM set value under HH environment	1 - 99	50
Н	HL LM PLAIN CL HH	Correction value for Color plain paper TH_LM set value under HH environment	1 - 99	50
	HL US PLAIN CL HH	Correction value for Color plain paper TH_US set value under HH environment	1 - 99	50
J	WARMUP FUMON HL US T HH	Correction value for fusing motor pre-rotation start TH US set value under HH environment	1 - 99	50
K	WARMUP FUMOFF HH	Fusing motor prior rotation completion time under HH environment	1 - 99	50
L	WARMUP END TIME HH	Correction value for warm-up complete time under HH environment	1 - 99	50
M	HL UM HEAVY HH	Correction value for heavy paper TH UM set value under HH environment	1 - 99	50
N	HL LM HEAVY HH	Correction value for heavy paper TH_LM set value under HH environment	1 - 99	50
0	HL US HEAVY HH	Correction value for heavy paper TH_US set value under HH environment	1 - 99	50
P	HL UM OHP HH	Correction value for OHP TH UM set value under HH environment	1 - 99	50
Q	HL LM OHP HH	Correction value for OHP TH LM set value under HH environment	1 - 99	50
R	HL US OHP HH	Correction value for OHP TH US set value under HH environment	1 - 99	50
S	HL UM ENVELOPE HH	Correction value for envelope TH UM set value under HH environment	1 - 99	50
T	HL LM ENVELOPE HH	Correction value for envelope TH_OM set value under HH environment	1 - 99	50
Ü	HL US ENVELOPE HH	Correction value for envelope TH_LM set value under HH environment	1 - 99	50
V	HL UM GLOSS HH		1 - 99	50
W	HL LM GLOSS HH	Correction value for glossy paper TH_UM set value under HH environment	1 - 99	50
X	HL US GLOSS HH	Correction value for glossy paper TH_LM set value under HH environment	1 - 99	50
Y	HL UM E-STAR HH	Correction value for glossy paper TH_US set value under HH environment	1 - 99	
_	_	Correction value for preheating TH_UM set value under HH environment		50
Z	HL_US E-STAR HH	Correction value for preheating TH_US set value under HH environment	1 - 99	50
AA	HL_UM PRE-JOB HH	Correction value for the set value of TH_UM when restoring from preheating under HH environment	1 - 99	50
AB	HL_LM E-STAR HH	Correction value for preheating TH_LM set value under HH environment	1 - 99	50
AC	HL_UM HEAVY2 CL HH	Correction value for heavy paper 2 TH_UM set value under HH environment	1 - 99	50
AD	HL_LM HEAVY2 CL HH	Correction value for heavy paper 2 TH_LM set value under HH environment	1 - 99	50
AE	HL_US HEAVY2 CL HH	Correction value for heavy paper 2 TH_US set value under HH environment	1 - 99	50
AF	HL_UM WARMUP_120L HH	Correction value for TH_UM set value in Warm-Up at 120°C or below under HH environment	1 - 99	50
AG	HL_LM WARMUP_120L HH	Correction value for TH_LM set value in Warm-Up at 120°C or below under HH environment	1 - 99	50
AH	HL_US WARMUP_120L HH	Correction value for TH_US set value in Warm-Up at 120°C or below under HH environment	1 - 99	50
Al	LO_WARMUP_TIME_HH	Correction value for AF-AH applying time (timer from Ready complete) under HH environment	1 - 99	50
AJ	HL_UM WARMUP_120H HH	Correction value for TH_UM set value in Warm-Up at 120°C or above under HH environment	1 - 99	50
AK	HL_LM WARMUP_120H HH	Correction value for TH_LM set value in Warm-Up at 120°C or above under HH environment	1 - 99	50
AL	HL_US WARMUP_120H HH	Correction value for TH_US set value in Warm-Up at 120°C or above under HH environment	1 - 99	50
AM	HI_WU_TIME_HH	Correction value for AJ-AL applying time (timer from Ready complete) under HH environment	1 - 99	50
AN	HI_WU_FM_ON_TMP_HH	Correction value for FM prior rotation start TH_US in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AO	HI_WU_END_TIME_HH	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AQ	HI_WARMUP_BORDER_HH	Correction value for the threshold value alpha applying SIM43-1-AN - AP under HH environment	1 - 99	50
AR	LO_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or below under HH	1 - 99	50
		environment		
AS	JOBEND_FUMON_TIME LL	Correction value for the after rotation time when completing a job under HH environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_HH_	Correction value (BW) for Job enable TH UM temperature when Warm-Up at alpha °C or above	1 - 99	50
	BW	under HH environment		-

<sup>\*</sup> Item WARMUP END TIME HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

# 26cpm/31cpm machine

Item/Display		Ometrical	Setting	Default valu			
item/Display		Content	range	Group Group		Group C	
Α	HL_UM READY HH	Correction value for TH_UM set value in Ready standby under HH environment	1 - 99	40	45	50	
В	HL_LM READY HH	Correction value for TH_LM set value in Ready standby under HH environment	1 - 99	40	45	50	
С	HL_US READY HH	Correction value for TH_US set value in Ready standby under HH environment	1 - 99	40	45	50	
D	HL_UM PLAIN BW HH	Correction value for Black-White plain paper TH_UM set value under HH environment	1 - 99	40	45	50	
Е	HL_LM PLAIN BW HH	Correction value for Black-White plain paper TH_LM set value under HH environment	1 - 99	40	45	50	
F	HL_US PLAIN BW HH	Correction value for Black-White plain paper TH_US set value under HH environment	1 - 99	40	45	50	
G	HL_UM PLAIN CL HH	Correction value for Color plain paper TH_UM set value under HH environment	1 - 99	40	45	50	
Н	HL_LM PLAIN CL HH	Correction value for Color plain paper TH_LM set value under HH environment	1 - 99	40	45	50	
I	HL_US PLAIN CL HH	Correction value for Color plain paper TH_US set value under HH environment	1 - 99	40	45	50	
J	WARMUP FUMON HL_US T HH	Correction value for fusing motor pre-rotation start TH_US set value under HH environment	1 - 99	50	50	50	
K	WARMUP FUMOFF HH	Fusing motor prior rotation completion time under HH environment	1 - 99	50	50	50	
L	WARMUP END TIME HH	Correction value for warm-up complete time under HH environment	1 - 99	50	50	50	
М	HL_UM HEAVY HH	Correction value for heavy paper TH_UM set value under HH environment	1 - 99	50	50	50	
N	HL_LM HEAVY HH	Correction value for heavy paper TH_LM set value under HH environment	1 - 99	50	50	50	
0	HL_US HEAVY HH	Correction value for heavy paper TH_US set value under HH environment	1 - 99	50	50	50	
Р	HL_UM OHP HH	Correction value for OHP TH_UM set value under HH environment	1 - 99	50	50	50	
Q	HL_LM OHP HH	Correction value for OHP TH_LM set value under HH environment	1 - 99	50	50	50	
R	HL US OHP HH	Correction value for OHP TH US set value under HH environment	1 - 99	50	50	50	
S	HL UM ENVELOPE HH	Correction value for envelope TH UM set value under HH environment	1 - 99	50	50	50	
T	HL LM ENVELOPE HH	Correction value for envelope TH LM set value under HH environment	1 - 99	50	50	50	
U	HL US ENVELOPE HH	Correction value for envelope TH_US set value under HH environment	1 - 99	50	50	50	
V	HL UM GLOSS HH	Correction value for glossy paper TH_UM set value under HH environment	1 - 99	50	50	50	
W	_				50	50	
	HL_LM GLOSS HH	Correction value for glossy paper TH_LM set value under HH environment	1 - 99	50			
X	HL_US GLOSS HH	Correction value for glossy paper TH_US set value under HH environment	1 - 99	50	50	50	
Υ	HL_UM E-STAR HH	Correction value for preheating TH_UM set value under HH environment	1 - 99	40	45	50	
Z AA	HL_US E-STAR HH HL_UM PRE-JOB HH	Correction value for preheating TH_US set value under HH environment  Correction value for the set value of TH_UM when restoring from preheating under HH environment	1 - 99 1 - 99	40	45 45	50 50	
AB	HL LM E-STAR HH	Correction value for preheating TH LM set value under HH environment	1 - 99	40	45	50	
	_						
AC	HL_UM HEAVY2 CL HH	Correction value for heavy paper 2 TH_UM set value under HH environment	1 - 99	50	50	50	
AD	HL_LM HEAVY2 CL HH	Correction value for heavy paper 2 TH_LM set value under HH environment	1 - 99	50	50	50	
AE	HL_US HEAVY2 CL HH	Correction value for heavy paper 2 TH_US set value under HH environment	1 - 99	50	50	50	
AF	HL_UM WARMUP_120L HH	Correction value for TH_UM set value in Warm-Up at 120°C or below under HH environment	1 - 99	40	45	50	
AG	HL_LM WARMUP_120L HH	Correction value for TH_LM set value in Warm-Up at 120°C or below under HH environment	1 - 99	40	45	50	
AH	HL_US WARMUP_120L HH	Correction value for TH_US set value in Warm-Up at 120°C or below under HH environment	1 - 99	40	45	50	
AI	LO_WARMUP_TIME_HH	Correction value for AF-AH applying time (timer from Ready complete) under HH environment	1 - 99	50	50	50	
AJ	HL_UM WARMUP_120H HH	Correction value for TH_UM set value in Warm-Up at 120°C or above under HH environment	1 - 99	40	45	50	
AK	HL_LM WARMUP_120H HH	Correction value for TH_LM set value in Warm-Up at 120°C or above under HH environment	1 - 99	40	45	50	
AL	HL_US WARMUP_120H HH	Correction value for TH_US set value in Warm-Up at 120°C or above under HH environment	1 - 99	40	45	50	
AM	HI_WU_TIME_HH	Correction value for AJ-AL applying time (timer from Ready complete) under HH environment	1 - 99	50	50	50	
AN	HI_WU_FM_ON_TMP_HH	Correction value for FM prior rotation start TH_US in Warm-Up at alpha °C or above under HH environment	1 - 99	50	50	50	
AO	HI_WU_END_TIME_HH	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under HH environment	1 - 99	50	50	50	
AP	HI_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or above under HH environment	1 - 99	40	45	50	
AQ	HI_WARMUP_BORDER_HH	Correction value for the threshold value alpha applying SIM43-1-AN - AP under HH environment	1 - 99	50	50	50	
AR	LO_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or below under HH environment  Correction value for the after rotation time when completing a job under HH	1 - 99	40	45	50	
	JOBEND_FUMON_TIME LL		1 - 99	50	50	50	

				Setting	D	efault valu	ıe
Item/Displa		Item/Display	Content	range	Group A	Group B	Group C
	AT	HI_WU_JOB_SET_TMP_HH_B W	Correction value (BW) for Job enable TH_UM temperature when Warm-Up at alpha °C or above under HH environment	1 - 99	40	45	50

<sup>\*</sup> Item WARMUP END TIME HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

# **Code descriptions**

TH_UM	H_UM Fusing thermistor main (Front surface of paper)		Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	TH_US Fusing thermistor sub (Front surface of paper)		Heater lamp sub (Heat roller for front surface of paper)

# List of destination groups

Group		Destination						
Group A	JAPAN	-	-	-	1			
Group B	U. S. A	CANADA	INCH	-	-			
Group C	EUROPE	U. K	AUS.	AB_B	CHINA			

# 36cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM READY HH	Correction value for TH_UM set value in Ready standby under HH environment	1 - 99	45
В	HL_LM READY HH	Correction value for TH_LM set value in Ready standby under HH environment	1 - 99	45
С	HL_US READY HH	Correction value for TH_US set value in Ready standby under HH environment	1 - 99	45
D	HL_UM PLAIN BW HH	Correction value for Black-White plain paper TH_UM set value under HH environment	1 - 99	45
Е	HL LM PLAIN BW HH	Correction value for Black-White plain paper TH LM set value under HH environment	1 - 99	45
F	HL US PLAIN BW HH	Correction value for Black-White plain paper TH US set value under HH environment	1 - 99	45
G	HL UM PLAIN CL HH	Correction value for Color plain paper TH UM set value under HH environment	1 - 99	45
Н	HL LM PLAIN CL HH	Correction value for Color plain paper TH LM set value under HH environment	1 - 99	45
ı	HL US PLAIN CL HH	Correction value for Color plain paper TH US set value under HH environment	1 - 99	45
J	WARMUP FUMON HL_US T HH	Correction value for fusing motor pre-rotation start TH_US set value under HH environment	1 - 99	50
K	WARMUP FUMOFF HH	Fusing motor prior rotation completion time under HH environment	1 - 99	50
L	WARMUP END TIME HH	Correction value for warm-up complete time under HH environment	1 - 99	50
М	HL UM HEAVY HH	Correction value for heavy paper TH_UM set value under HH environment	1 - 99	50
N	HL LM HEAVY HH	Correction value for heavy paper TH LM set value under HH environment	1 - 99	50
0	HL US HEAVY HH	Correction value for heavy paper TH US set value under HH environment	1 - 99	50
P	HL UM OHP HH	Correction value for OHP TH UM set value under HH environment	1 - 99	50
Q	HL LM OHP HH	Correction value for OHP TH LM set value under HH environment	1 - 99	50
R	HL US OHP HH	Correction value for OHP TH US set value under HH environment	1 - 99	50
S	HL UM ENVELOPE HH	Correction value for envelope TH_UM set value under HH environment	1 - 99	50
T	HL LM ENVELOPE HH	Correction value for envelope TH_DM set value under HH environment	1 - 99	50
U	HL US ENVELOPE HH	Correction value for envelope TH_LTM set value under HH environment	1 - 99	50
V	HL UM GLOSS HH	Correction value for envelope TH_OS set value under HH environment  Correction value for glossy paper TH_UM set value under HH environment	1 - 99	50
W	HL LM GLOSS HH	Correction value for glossy paper TH_OW set value under HH environment	1 - 99	50
X	HL US GLOSS HH	Correction value for glossy paper TH_LiM set value under HH environment	1 - 99	50
Y	HL UM E-STAR HH	Correction value for grossy paper FT_03 set value under HH environment	1 - 99	45
Z	HL US E-STAR HH	Correction value for preheating TH_US set value under HH environment	1 - 99	45
AA	_	Correction value for the set value of TH_UM when restoring from preheating under HH	1 - 99	45
AA	HL_UM PRE-JOB HH	environment	1 - 99	45
AB	HL_LM E-STAR HH	Correction value for preheating TH_LM set value under HH environment	1 - 99	45
AC	HL_UM HEAVY2 CL HH	Correction value for heavy paper 2 TH_UM set value under HH environment	1 - 99	50
AD	HL_LM HEAVY2 CL HH	Correction value for heavy paper 2 TH_LM set value under HH environment	1 - 99	50
ΑE	HL_US HEAVY2 CL HH	Correction value for heavy paper 2 TH_US set value under HH environment	1 - 99	50
AF	HL_UM WARMUP_120L HH	Correction value for TH_UM set value in Warm-Up at 120°C or below under HH environment	1 - 99	45
AG	HL LM WARMUP 120L HH	Correction value for TH_LM set value in Warm-Up at 120°C or below under HH environment	1 - 99	45
AH	HL_US WARMUP_120L HH	Correction value for TH_US set value in Warm-Up at 120°C or below under HH environment	1 - 99	45
Al	LO WARMUP TIME HH	Correction value for AF-AH applying time (timer from Ready complete) under HH environment	1 - 99	50
AJ	HL UM WARMUP 120H HH	Correction value for TH UM set value in Warm-Up at 120°C or above under HH environment	1 - 99	45
AK	HL LM WARMUP 120H HH	Correction value for TH_LM set value in Warm-Up at 120°C or above under HH environment	1 - 99	45
AL	HL_US WARMUP_120H HH	Correction value for TH_US set value in Warm-Up at 120°C or above under HH environment	1 - 99	45
AM	HI WU TIME HH	Correction value for AJ-AL applying time (timer from Ready complete) under HH environment	1 - 99	50
AN	HI_WU_FM_ON_TMP_HH	Correction value for FM prior rotation start TH_US in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AO	HI_WU_END_TIME_HH	Correction value for Warm-Up completion time in Warm-Up at alpha °C or above under HH environment	1 - 99	50
AP	HI_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or above under HH environment	1 - 99	45
AQ	HI_WARMUP_BORDER_HH	Correction value for the threshold value alpha applying SIM43-1-AN - AP under HH environment	1 - 99	50

Item/Display		Content	Setting range	Default value
AR	LO_WU_JOB_SET_TMP_HH	Correction value for Job Enable TH_UM temperature in Warm-Up at alpha °C or below under HH environment	1 - 99	45
AS	JOBEND_FUMON_TIME LL	Correction value for the after rotation time when completing a job under HH environment	1 - 99	50
AT	HI_WU_JOB_SET_TMP_HH_B W	Correction value (BW) for Job enable TH_UM temperature when Warm-Up at alpha °C or above under HH environment	1 - 99	45

<sup>\*</sup> Item WARMUP END TIME HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

# **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

43-22				
Purpose	Adjustment/Setup			
Function (Purpose)	Used to set the environment correction			
	under low temperature and low humidity (L/L) for the fusing temperature setting (SIM 43-4) in each paper mode.			
Section				

# Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.
  The set value in step 2 is saved.

Correction value: -49 - +49, Input value: Actually inputted value (1 - 99)

Correction value	-49	-25	-5	0
Input value	1	25	45	50

# 18cpm/20cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM PLAIN BW DUP LL	Correction value for upper TH_UM Black-White plain paper duplex under LL environment		55
В	HL_LM PLAIN BW DUP LL	Correction value for lower TH_LM Black-White plain paper duplex under LL environment	1 - 99	55
С	HL_US PLAIN BW DUP LL	Correction value for upper TH_US Black-White plain paper duplex under LL environment	1 - 99	55
D	PLAIN BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White plain paper duplex under LL environment	1 - 99	50
Е	HL_UM PLAIN CL DUP LL	Correction value for upper TH_UM Color plain paper duplex under LL environment	1 - 99	55
F	HL_LM PLAIN CL DUP LL	Correction value for lower TH_LM Color plain paper duplex under LL environment	1 - 99	55
G	HL_US PLAIN CL DUP LL	Correction value for upper TH_US Color plain paper duplex under LL environment	1 - 99	55
Н	PLAIN CL DUP APP CNT LL	Correction value for applying number of sheets in Color plain paper duplex under LL environment	1 - 99	50
I	HL_UM HEAVY BW DUP LL	Correction value for upper TH_UM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
J	HL_LM HEAVY BW DUP LL	Correction value for lower TH_LM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
K	HL_US HEAVY BW DUP LL	Correction value for upper TH_US set value in Black-White heavy paper duplex under LL environment	1 - 99	55
L	HEAVY BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White heavy paper duplex under LL environment	1 - 99	50
М	HL_UM HEAVY CL DUP LL	Correction value for upper TH_UM set value in Color heavy paper duplex under LL environment	1 - 99	55
N	HL_LM HEAVY CL DUP LL	Correction value for lower TH_LM set value in Color heavy paper duplex under LL environment	1 - 99	55
0	HL_US HEAVY CL DUP LL	Correction value for upper TH_US set value in Color heavy paper duplex under LL environment	1 - 99	55
Р	HEAVY CL DUP APP CNT LL	Correction value for applying number of sheets in Color heavy paper duplex under LL environment	1 - 99	50

<sup>\*</sup> Items PLAIN BW DUP APP CNT LL/ PLAIN CL DUP APP CNT LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH US	Fusing thermistor sub (Front surface of paper)	HL US	Heater lamp sub (Heat roller for front surface of paper)

# 23cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM PLAIN BW DUP LL	Correction value for upper TH_UM Black-White plain paper duplex under LL environment	1 - 99	55
В	HL_LM PLAIN BW DUP LL	Correction value for lower TH_LM Black-White plain paper duplex under LL environment	1 - 99	55
С	HL_US PLAIN BW DUP LL	Correction value for upper TH_US Black-White plain paper duplex under LL environment	1 - 99	55
D	PLAIN BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White plain paper duplex under LL environment	1 - 99	50
Ε	HL_UM PLAIN CL DUP LL	Correction value for upper TH_UM Color plain paper duplex under LL environment	1 - 99	55
F	HL_LM PLAIN CL DUP LL	Correction value for lower TH_LM Color plain paper duplex under LL environment	1 - 99	55
G	HL_US PLAIN CL DUP LL	Correction value for upper TH_US Color plain paper duplex under LL environment	1 - 99	55
Н	PLAIN CL DUP APP CNT LL	Correction value for applying number of sheets in Color plain paper duplex under LL environment	1 - 99	50
ı	HL_UM HEAVY BW DUP LL	Correction value for upper TH_UM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
J	HL_LM HEAVY BW DUP LL	Correction value for lower TH_LM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
K	HL_US HEAVY BW DUP LL	Correction value for upper TH_US set value in Black-White heavy paper duplex under LL environment	1 - 99	55
L	HEAVY BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White heavy paper duplex under LL environment	1 - 99	50
М	HL_UM HEAVY CL DUP LL	Correction value for upper TH_UM set value in Color heavy paper duplex under LL environment	1 - 99	55
Ν	HL_LM HEAVY CL DUP LL	Correction value for lower TH_LM set value in Color heavy paper duplex under LL environment	1 - 99	55
0	HL_US HEAVY CL DUP LL	Correction value for upper TH_US set value in Color heavy paper duplex under LL environment	1 - 99	55
Р	HEAVY CL DUP APP CNT LL	Correction value for applying number of sheets in Color heavy paper duplex under LL environment	1 - 99	50

<sup>\*</sup> Items PLAIN BW DUP APP CNT LL/ PLAIN CL DUP APP CNT LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

# **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

# 26cpm/31cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM PLAIN BW DUP LL	Correction value for upper TH_UM Black-White plain paper duplex under LL environment	1 - 99	55
В	HL_LM PLAIN BW DUP LL	Correction value for lower TH_LM Black-White plain paper duplex under LL environment	1 - 99	55
С	HL_US PLAIN BW DUP LL	Correction value for upper TH_US Black-White plain paper duplex under LL environment	1 - 99	55
D	PLAIN BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White plain paper duplex under LL environment	1 - 99	50
Е	HL_UM PLAIN CL DUP LL	Correction value for upper TH_UM Color plain paper duplex under LL environment	1 - 99	55
F	HL_LM PLAIN CL DUP LL	Correction value for lower TH_LM Color plain paper duplex under LL environment	1 - 99	55
G	HL_US PLAIN CL DUP LL	Correction value for upper TH_US Color plain paper duplex under LL environment	1 - 99	55
Н	PLAIN CL DUP APP CNT LL	Correction value for applying number of sheets in Color plain paper duplex under LL environment	1 - 99	50
I	HL_UM HEAVY BW DUP LL	Correction value for upper TH_UM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
J	HL_LM HEAVY BW DUP LL	Correction value for lower TH_LM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
K	HL_US HEAVY BW DUP LL	Correction value for upper TH_US set value in Black-White heavy paper duplex under LL environment	1 - 99	55
L	HEAVY BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White heavy paper duplex under LL environment	1 - 99	50
М	HL_UM HEAVY CL DUP LL	Correction value for upper TH_UM set value in Color heavy paper duplex under LL environment	1 - 99	55
N	HL_LM HEAVY CL DUP LL	Correction value for lower TH_LM set value in Color heavy paper duplex under LL environment	1 - 99	55
0	HL_US HEAVY CL DUP LL	Correction value for upper TH_US set value in Color heavy paper duplex under LL environment	1 - 99	55
Р	HEAVY CL DUP APP CNT LL	Correction value for applying number of sheets in Color heavy paper duplex under LL environment	1 - 99	50

<sup>\*</sup> Items PLAIN BW DUP APP CNT LL/ PLAIN CL DUP APP CNT LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

# 36cpm machine

	Item/Display	Content	Setting range	Default value
Α	HL_UM PLAIN BW DUP LL	Correction value for upper TH_UM Black-White plain paper duplex under LL environment	1 - 99	55
В	HL_LM PLAIN BW DUP LL	Correction value for lower TH_LM Black-White plain paper duplex under LL environment	1 - 99	55
O	HL_US PLAIN BW DUP LL	Correction value for upper TH_US Black-White plain paper duplex under LL environment	1 - 99	55
D	PLAIN BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White plain paper duplex under LL environment	1 - 99	50
Е	HL_UM PLAIN CL DUP LL	Correction value for upper TH_UM Color plain paper duplex under LL environment	1 - 99	55
F	HL_LM PLAIN CL DUP LL	Correction value for lower TH_LM Color plain paper duplex under LL environment	1 - 99	55
G	HL_US PLAIN CL DUP LL	Correction value for upper TH_US Color plain paper duplex under LL environment	1 - 99	55
Η	PLAIN CL DUP APP CNT LL	Correction value for applying number of sheets in Color plain paper duplex under LL environment	1 - 99	50
I	HL_UM HEAVY BW DUP LL	Correction value for upper TH_UM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
J	HL_LM HEAVY BW DUP LL	Correction value for lower TH_LM set value in Black-White heavy paper duplex under LL environment	1 - 99	55
K	HL_US HEAVY BW DUP LL	Correction value for upper TH_US set value in Black-White heavy paper duplex under LL environment	1 - 99	55
L	HEAVY BW DUP APP CNT LL	Correction value for applying number of sheets in Black-White heavy paper duplex under LL environment	1 - 99	50
М	HL_UM HEAVY CL DUP LL	Correction value for upper TH_UM set value in Color heavy paper duplex under LL environment	1 - 99	55
Ν	HL_LM HEAVY CL DUP LL	Correction value for lower TH_LM set value in Color heavy paper duplex under LL environment	1 - 99	55
0	HL_US HEAVY CL DUP LL	Correction value for upper TH_US set value in Color heavy paper duplex under LL environment	1 - 99	55
Р	HEAVY CL DUP APP CNT LL	Correction value for applying number of sheets in Color heavy paper duplex under LL environment	1 - 99	50

<sup>\*</sup> Items PLAIN BW DUP APP CNT LL/ PLAIN CL DUP APP CNT LL: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

Purpose Adjustment/Setup

Function (Purpose) Used to set the environment correction under high temperature and high humidity (H/H) for the fusing temperature setting (SIM 43-4) in each paper mode.

Section

# Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2) is saved.

Correction value: -49 - +49, Input value: Actually inputted value (1 - 99)

Correction value	-49	-25	-5	0
Input value	1	25	45	50

# 18cpm/20cpm machine

	Item/Display	Content	Setting range	Default value	
Α	HL_UM PLAIN BW DUP HH	Correction value for TH_UM Black-White plain paper duplex mode under HH environment	1 - 99	50	
В	HL_LM PLAIN BW DUP HH	Correction value for TH_LM Black-White plain paper duplex mode under HH environment	1 - 99	50	
С	HL_US PLAIN BW DUP HH	Correction value for TH_US Black-White plain paper duplex mode under HH environment	1 - 99	50	
D	PLAIN BW DUP APP CNT HH				
Е	HL_UM PLAIN CL DUP HH	HL_UM PLAIN CL DUP HH Correction value for TH_UM Color plain paper duplex mode under HH environment			
F	HL_LM PLAIN CL DUP HH	AIN CL DUP HH Correction value for TH_LM Color plain paper duplex mode under HH environment			
G	HL_US PLAIN CL DUP HH	Correction value for TH_US Color plain paper duplex mode under HH environment	1 - 99	50	
Н	PLAIN CL DUP APP CNT HH	Correction value for applying number of sheets in Color plain paper duplex under HH environment	1 - 99	50	
- 1	HL_UM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50	
J	HL_LM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50	
K	HL_US HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_US set value under HH environment	1 - 99	50	
L	HEAVY BW DUP APP CNT HH	Correction value for applying number of sheets in Black-White heavy paper duplex under HH environment	1 - 99	50	
М	HL_UM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50	
Ν	HL_LM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50	
0	HL_US HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_US set value under HH environment	1 - 99	50	
Р	HEAVY CL DUP APP CNT HH	Correction value for applying number of sheets in Color heavy paper duplex under HH environment	1 - 99	50	

<sup>\*</sup> Items PLAIN BW DUP APP CNT HH/ PLAIN CL DUP APP CNT HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

## **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

#### 23cpm machine

Item/Display		Content	Setting range	Default value	
Α	HL_UM PLAIN BW DUP HH	Correction value for TH_UM Black-White plain paper duplex mode under HH environment			
В	HL_LM PLAIN BW DUP HH	Correction value for TH_LM Black-White plain paper duplex mode under HH environment	1 - 99	50	
С	HL_US PLAIN BW DUP HH	Correction value for TH_US Black-White plain paper duplex mode under HH environment	1 - 99	50	
D	PLAIN BW DUP APP CNT HH	H Correction value for applying number of sheets in Black-White plain paper duplex under HH environment			
Е	HL_UM PLAIN CL DUP HH	Correction value for TH_UM Color plain paper duplex mode under HH environment	1 - 99	50	
F	HL_LM PLAIN CL DUP HH	CL DUP HH Correction value for TH_LM Color plain paper duplex mode under HH environment			
G	HL_US PLAIN CL DUP HH	Correction value for TH_US Color plain paper duplex mode under HH environment	1 - 99	50	
Н	PLAIN CL DUP APP CNT HH	Correction value for applying number of sheets in Color plain paper duplex under HH environment	1 - 99	50	
1	HL_UM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50	
J	HL_LM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50	
K	HL_US HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_US set value under HH environment	1 - 99	50	
L	HEAVY BW DUP APP CNT HH	Correction value for applying number of sheets in Black-White heavy paper duplex under HH environment	1 - 99	50	
М	HL_UM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50	
Ν	HL_LM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50	
0	HL_US HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_US set value under HH environment	1 - 99	50	
Р	HEAVY CL DUP APP CNT HH	Correction value for applying number of sheets in Color heavy paper duplex under HH environment	1 - 99	50	

<sup>\*</sup> Items PLAIN BW DUP APP CNT HH/ PLAIN CL DUP APP CNT HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

# **Code descriptions**

Т	TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
1	TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
1	TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

# 26cpm/31cpm machine

	Item/Display	Item/Display Content				
Α	HL_UM PLAIN BW DUP HH	Correction value for TH_UM Black-White plain paper duplex mode under HH environment				
В	HL_LM PLAIN BW DUP HH	Correction value for TH_LM Black-White plain paper duplex mode under HH environment	1 - 99	50		
С	HL_US PLAIN BW DUP HH	Correction value for TH_US Black-White plain paper duplex mode under HH environment	1 - 99	50		
D	PLAIN BW DUP APP CNT HH	Correction value for applying number of sheets in Black-White plain paper duplex under HH environment	1 - 99	50		
Е	HL_UM PLAIN CL DUP HH	Correction value for TH_UM Color plain paper duplex mode under HH environment	1 - 99	50		
F	HL_LM PLAIN CL DUP HH	Correction value for TH_LM Color plain paper duplex mode under HH environment	1 - 99	50		
G	HL_US PLAIN CL DUP HH	Correction value for TH_US Color plain paper duplex mode under HH environment	1 - 99	50		
Н	PLAIN CL DUP APP CNT HH	Correction value for applying number of sheets in Color plain paper duplex under HH environment	1 - 99	50		
1	HL_UM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50		
J	HL_LM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50		
K	HL_US HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_US set value under HH environment	1 - 99	50		
L	HEAVY BW DUP APP CNT HH	Correction value for applying number of sheets in Black-White heavy paper duplex under HH environment	1 - 99	50		
М	HL_UM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50		
Ν	HL_LM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50		
0	HL_US HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_US set value under HH environment	1 - 99	50		
Р						

<sup>\*</sup> Items PLAIN BW DUP APP CNT HH/ PLAIN CL DUP APP CNT HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

# **Code descriptions**

	TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
	TH_LM Fusing thermistor main (Back surface of paper)			Heater lamp main (Heat roller for back surface of paper)
TH_US Fusing thermistor sub (Front surface of paper)		HL_US	Heater lamp sub (Heat roller for front surface of paper)	

# 36cpm machine

	Item/Display	Content	Setting range	Default value	
Α	HL_UM PLAIN BW DUP HH	Correction value for TH_UM Black-White plain paper duplex mode under HH environment	1 - 99	50	
В	HL_LM PLAIN BW DUP HH	Correction value for TH_LM Black-White plain paper duplex mode under HH environment	1 - 99	50	
С	HL_US PLAIN BW DUP HH	Correction value for TH_US Black-White plain paper duplex mode under HH environment	1 - 99	50	
D	PLAIN BW DUP APP CNT HH	Correction value for applying number of sheets in Black-White plain paper duplex under HH environment			
Е	HL_UM PLAIN CL DUP HH	Correction value for TH_UM Color plain paper duplex mode under HH environment			
F	HL_LM PLAIN CL DUP HH	Correction value for TH_LM Color plain paper duplex mode under HH environment			
G	HL_US PLAIN CL DUP HH	Correction value for TH_US Color plain paper duplex mode under HH environment	1 - 99	50	
Н	PLAIN CL DUP APP CNT HH	Correction value for applying number of sheets in Color plain paper duplex under HH environment	1 - 99	50	
ı	HL_UM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50	
J	HL_LM HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50	
K	HL_US HEAVY BW DUP HH	Correction value for Black-White heavy paper duplex mode TH_US set value under HH environment	1 - 99	50	
L	HEAVY BW DUP APP CNT HH	Correction value for applying number of sheets in Black-White heavy paper duplex under HH environment	1 - 99	50	
M	HL_UM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_UM set value under HH environment	1 - 99	50	
N	HL_LM HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_LM set value under HH environment	1 - 99	50	
0	HL_US HEAVY CL DUP HH	Correction value for Color heavy paper duplex mode TH_US set value under HH environment	1 - 99	50	
Р	HEAVY CL DUP APP CNT HH	Correction value for applying number of sheets in Color heavy paper duplex under HH environment	1 - 99	50	

<sup>\*</sup> Items PLAIN BW DUP APP CNT HH/ PLAIN CL DUP APP CNT HH: 1 Count = 1s Change Correction value for the other items: 1 count for 1°C change

TH_UM	Fusing thermistor main (Front surface of paper)		Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

Purpose Adjustment/Setup

Function (Purpose) Used to set the correction of the temperature adjustment value of SIM 43-1 and 43-4.

Section

## Operation/Procedure

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value in step 2 is saved.

Correction value: -49 - +49, Input value: Actually inputted value (1 - 99)

Correction value	-49	-25	-5	0	5	25	49
Input value	1	25	45	50	55	75	99

### 18cpm/20cpm machine

			Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Group A	Group B	Group C	Group A	Group B	Group C
Α	NN_120_FUS_DUP_HL_UM	Correction value for SIM43-4-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
В	NN_120_FUS_DUP_HL_LM	Correction value for SIM43-4-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
С	LL_120_FUS_DUP_HL_UM	Correction value for SIM43-22-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
D	LL_120_FUS_DUP_HL_LM	Correction value for SIM43-22-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
Е	HH_120_FUS_DUP_HL_UM	Correction value for SIM43-23-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
F	HH_120_FUS_DUP_HL_LM	Correction value for SIM43-23-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
G	NN_120_FUS_DUP_CNT	Fusing duplex paper exit count under NN environment	5	5	5	5	5	5
Н	LL_120_FUS_DUP_CNT	Fusing duplex paper exit count under LL environment	10	10	10	10	10	10
I	HH_120_FUS_DUP_CNT	Fusing duplex paper exit count under HH environment		5	5	5	5	5
J	COOL_DOWN_HEAVY	Cool down time heavy paper	5	5	5	5	5	5
K	COOL_DOWN_OHP	Cool down time OHP	10	10	10	10	10	10
L	COOL_DOWN_ENVELOPE	Cool down time envelope	15	15	15	15	15	15
М	NN_120_FUS_DUP_HL_US	Correction value for SIM43-4-C, G at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
N	LL_120_FUS_DUP_HL_US	Correction value for SIM43-22-C, G at 120°C or below in L/L Warm-Up	50	50	50	50	50	50
0	HH_120_FUS_DUP_HL_US	Correction value for SIM43-23-C, G at 120°C or below in H/H Warm-Up	50	50	50	50	50	50
Р	HL_UM THIN PAPER BW	Thin paper BW-TH_UM	130	130	130	130	130	130
Q	HL_LM THIN PAPER BW	Thin paper BW-TH_LM	120	120	120	120	120	120
R	HL_US THIN PAPER BW	Thin paper BW-TH_US	130	130	130	130	130	130
S	HL_UM THIN PAPER CL	Thin paper COL-TH_UM	140	140	140	140	140	140
Т	HL_LM THIN PAPER CL	Thin paper COL-TH_LM	130	130	130	130	130	130
U	HL_US THIN PAPER CL	Thin paper COL-TH_US	140	140	140	140	140	140
V	HL_UM THIN PAPER READY	Thin paper Ready-TH_UM	145	145	145	145	145	145
W	HL_UM REC PAPER BW	Recycled paper BW-TH_UM	135	160	160	135	160	160
Х	HL_LM REC PAPER BW	Recycled paper BW-TH_LM	125	140	140	125	140	140
Υ	HL_US REC PAPER BW	Recycled paper BW-TH_US	135	155	155	135	155	155
Z	HL_UM REC PAPER CL	Recycled paper COL-TH_UM	145	170	170	145	170	170
AA	HL_LM REC PAPER CL	Recycled paper COL-TH_LM	135	140	140	135	140	140
AB	HL_US REC PAPER CL	Recycled paper COL-TH_US	145	160	160	145	160	160
AC	HL_UM REC PAPER READY	Recycled paper Ready-TH_UM	155	180	180	155	180	180

- \* Each temperature correction value: 1 count for 1°C change in temperature control
- \* Each paper exit count: 1 count = 1 sheet change
- \* Each cool down time: 1 count = 1sec change

### **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

- SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.
- SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

# List of destination groups

Group		Destination				
Group A	JAPAN	-	-	_	_	
Group B	U. S. A	CANADA	INCH	-	-	
Group C	EUROPE	U. K	AUS.	AB_B	CHINA	

# 23cpm machine

				It value (	SW-A)	Defau	lt value (	SW-B)
	Item/Display	Content	Group A	Group B	Group C	Group A	Group B	Group C
Α	NN_120_FUS_DUP_HL_UM	Correction value for SIM43-4-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
В	NN_120_FUS_DUP_HL_LM	Correction value for SIM43-4-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
С	LL_120_FUS_DUP_HL_UM	Correction value for SIM43-22-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
D	LL_120_FUS_DUP_HL_LM	Correction value for SIM43-22-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
E	HH_120_FUS_DUP_HL_UM	Correction value for SIM43-23-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
F	HH_120_FUS_DUP_HL_LM	Correction value for SIM43-23-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
G	NN_120_FUS_DUP_CNT	Fusing duplex paper exit count under NN environment	5	5	5	5	5	5
Н	LL_120_FUS_DUP_CNT	Fusing duplex paper exit count under LL environment	10	10	10	10	10	10
I	HH_120_FUS_DUP_CNT	Fusing duplex paper exit count under HH environment	5	5	5	5	5	5
J	COOL_DOWN_HEAVY	Cool down time heavy paper	5	5	5	5	5	5
K	COOL_DOWN_OHP	Cool down time OHP	10	10	10	10	10	10
L	COOL_DOWN_ENVELOPE	Cool down time envelope	15	15	15	15	15	15
М	NN_120_FUS_DUP_HL_US	Correction value for SIM43-4-C, G at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
N	LL_120_FUS_DUP_HL_US	Correction value for SIM43-22-C, G at 120°C or below in L/L Warm-Up	50	50	50	50	50	50
0	HH_120_FUS_DUP_HL_US	Correction value for SIM43-23-C, G at 120°C or below in H/H Warm-Up	50	50	50	50	50	50
Р	HL_UM THIN PAPER BW	Thin paper BW-TH_UM	115	115	115	115	115	115
Q	HL_LM THIN PAPER BW	Thin paper BW-TH_LM	105	105	105	105	105	105
R	HL_US THIN PAPER BW	Thin paper BW-TH_US	125	125	125	125	125	125
S	HL_UM THIN PAPER CL	Thin paper COL-TH_UM	115	115	115	115	115	115
Т	HL_LM THIN PAPER CL	Thin paper COL-TH_LM	105	105	105	105	105	105
U	HL_US THIN PAPER CL	Thin paper COL-TH_US	125	125	125	125	125	125
V	HL_UM THIN PAPER READY	Thin paper Ready-TH_UM	120	120	120	120	120	120
W	HL_UM REC PAPER BW	Recycled paper BW-TH_UM	130	135	135	130	135	135
Х	HL_LM REC PAPER BW	Recycled paper BW-TH_LM	110	110	110	110	110	110
Υ	HL_US REC PAPER BW	Recycled paper BW-TH_US	135	150	150	135	150	150
Z	HL_UM REC PAPER CL	Recycled paper COL-TH_UM	130	135	135	130	135	135
AA	HL_LM REC PAPER CL	Recycled paper COL-TH_LM	110	110	110	110	110	110
AB	HL_US REC PAPER CL	Recycled paper COL-TH_US	135	150	150	135	150	150
AC	HL_UM REC PAPER READY	Recycled paper Ready-TH_UM	140	145	145	140	145	145

<sup>\*</sup> Each temperature correction value: 1 count for 1°C change in temperature control

# **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

# List of destination groups

Group		Destination			
Group A	JAPAN	-	-	-	-
Group B	U. S. A	CANADA	INCH	-	_
Group C	EUROPE	U. K	AUS.	AB_B	CHINA

<sup>\*</sup> Each paper exit count: 1 count = 1 sheet change

<sup>\*</sup> Each cool down time: 1 count = 1sec change

# 26cpm/31cpm machine

			Defau	It value (	SW-A)	Defau	It value (	SW-B)
	Item/Display	Content	Group	Group	Group	Group	Group	Group
	<del>_</del>		Α	В	С	Α	В	С
Α	NN_120_FUS_DUP_HL_UM	Correction value for SIM43-4-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
В	NN_120_FUS_DUP_HL_LM	Correction value for SIM43-4-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
С	LL_120_FUS_DUP_HL_UM	Correction value for SIM43-22-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
D	LL_120_FUS_DUP_HL_LM	Correction value for SIM43-22-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
Е	HH_120_FUS_DUP_HL_UM	Correction value for SIM43-23-A, E at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
F	HH_120_FUS_DUP_HL_LM	Correction value for SIM43-23-B, F at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
G	NN_120_FUS_DUP_CNT	Fusing duplex paper exit count under NN environment	5	5	5	5	5	5
Н	LL 120 FUS DUP CNT	Fusing duplex paper exit count under LL environment	10	10	10	10	10	10
I	HH_120_FUS_DUP_CNT	Fusing duplex paper exit count under HH environment	5	5	5	5	5	5
J	COOL_DOWN_HEAVY	Cool down time heavy paper	5	5	5	5	5	5
K	COOL DOWN OHP	Cool down time OHP	10	10	10	10	10	10
L	COOL_DOWN_ENVELOPE	Cool down time envelope	15	15	15	15	15	15
М	NN_120_FUS_DUP_HL_US	Correction value for SIM43-4-C, G at 120°C or below in N/N Warm-Up	50	50	50	50	50	50
N	LL_120_FUS_DUP_HL_US	Correction value for SIM43-22-C, G at 120°C or below in L/L Warm-Up	50	50	50	50	50	50
0	HH_120_FUS_DUP_HL_US	Correction value for SIM43-23-C, G at 120°C or below in H/H Warm-Up	50	50	50	50	50	50
Р	HL UM THIN PAPER BW	Thin paper BW-TH UM	115	115	115	115	115	115
Q	HL LM THIN PAPER BW	Thin paper BW-TH LM	105	105	105	105	105	105
R	HL US THIN PAPER BW	Thin paper BW-TH US	135	135	135	135	135	135
S	HL_UM THIN PAPER CL	Thin paper COL-TH_UM	115	115	115	115	115	115
Т	HL_LM THIN PAPER CL	Thin paper COL-TH_LM	105	105	105	105	105	105
U	HL_US THIN PAPER CL	Thin paper COL-TH_US	135	135	135	135	135	135
V	HL_UM THIN PAPER READY	Thin paper Ready-TH_UM	120	120	120	120	120	120
W	HL_UM REC PAPER BW	Recycled paper BW-TH_UM	130	135	140	130	135	140
Х	HL_LM REC PAPER BW	Recycled paper BW-TH_LM	110	110	110	110	110	110
Υ	HL_US REC PAPER BW	Recycled paper BW-TH_US	140	155	165	140	155	165
Z	HL_UM REC PAPER CL	Recycled paper COL-TH_UM	130	135	140	130	135	140
AA	HL_LM REC PAPER CL	Recycled paper COL-TH_LM	110	110	110	110	110	110
AB	HL_US REC PAPER CL	Recycled paper COL-TH_US	140	155	165	140	155	165
AC	HL_UM REC PAPER READY	Recycled paper Ready-TH_UM	140	145	150	140	145	150

<sup>\*</sup> Each temperature correction value: 1 count for 1°C change in temperature control

# **Code descriptions**

ĺ	TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
	TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
	TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.

SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

# List of destination groups

Group	Destination					
Group A	JAPAN	-	-	-	-	
Group B	U. S. A	CANADA	INCH	-	-	
Group C	EUROPE	U. K	AUS.	AB B	CHINA	

<sup>\*</sup> Each paper exit count: 1 count = 1 sheet change

<sup>\*</sup> Each cool down time: 1 count = 1sec change

# 36cpm machine

	Hama (Diameter)	Contont	Default value			
	Item/Display	Content	Group A	Group B	Group C	
Α	NN_120_FUS_DUP_HL_UM	Correction value for SIM43-4-A, E at 120°C or below in N/N Warm-Up	50	50	50	
В	NN_120_FUS_DUP_HL_LM	Correction value for SIM43-4-B, F at 120°C or below in N/N Warm-Up	50	50	50	
С	LL_120_FUS_DUP_HL_UM	Correction value for SIM43-22-A, E at 120°C or below in N/N Warm-Up	50	50	50	
D	LL_120_FUS_DUP_HL_LM	Correction value for SIM43-22-B, F at 120°C or below in N/N Warm-Up	50	50	50	
Е	HH_120_FUS_DUP_HL_UM	Correction value for SIM43-23-A, E at 120°C or below in N/N Warm-Up	50	50	50	
F	HH_120_FUS_DUP_HL_LM	Correction value for SIM43-23-B, F at 120°C or below in N/N Warm-Up	50	50	50	
G	NN_120_FUS_DUP_CNT	Fusing duplex paper exit count under NN environment	5	5	5	
Н	LL_120_FUS_DUP_CNT	Fusing duplex paper exit count under LL environment	10	10	10	
ı	HH_120_FUS_DUP_CNT	Fusing duplex paper exit count under HH environment	5	5	5	
J	COOL_DOWN_HEAVY	Cool down time heavy paper	5	5	5	
K	COOL_DOWN_OHP	Cool down time OHP	10	10	10	
L	COOL_DOWN_ENVELOPE	Cool down time envelope	15	15	15	
М	FUSER MOTOR	Web send quantity	10	10	10	
N	NN_120_FUS_DUP_HL_US	Correction value for SIM43-4-C, G at 120°C or below in N/N Warm-Up	50	50	50	
0	LL_120_FUS_DUP_HL_US	Correction value for SIM43-22-C, G at 120°C or below in L/L Warm-Up	50	50	50	
Р	HH_120_FUS_DUP_HL_US	Correction value for SIM43-23-C, G at 120°C or below in H/H Warm-Up	50	50	50	
Q	HL_UM THIN PAPER BW	Thin paper BW-TH_UM	125	125	125	
R	HL_LM THIN PAPER BW	Thin paper BW-TH_LM	105	105	105	
S	HL_US THIN PAPER BW	Thin paper BW-TH_US	140	140	140	
Т	HL_UM THIN PAPER CL	Thin paper COL-TH_UM	125	125	125	
U	HL_LM THIN PAPER CL	Thin paper COL-TH_LM	105	105	105	
V	HL_US THIN PAPER CL	Thin paper COL-TH_US	140	140	140	
W	HL_UM THIN PAPER READY	Thin paper Ready-TH_UM	130	130	130	
Х	HL_UM REC PAPER BW	Recycled paper BW-TH_UM	130	140	150	
Υ	HL_LM REC PAPER BW	Recycled paper BW-TH_LM	110	110	110	
Z	HL_US REC PAPER BW	Recycled paper BW-TH_US	145	160	170	
AA	HL_UM REC PAPER CL	Recycled paper COL-TH_UM	130	140	150	
AB	HL_LM REC PAPER CL	Recycled paper COL-TH_LM	110	110	110	
AC	HL_US REC PAPER CL	Recycled paper COL-TH_US	145	160	170	
AD	HL_UM REC PAPER READY	Recycled paper Ready-TH_UM	140	150	160	

- \* Each temperature correction value: 1 count for 1°C change in temperature control
- \* Each paper exit count: 1 count = 1 sheet change
- \* Each cool down time: 1 count = 1sec change

# **Code descriptions**

TH_UM	Fusing thermistor main (Front surface of paper)	HL_UM	Heater lamp main (Heat roller for front surface of paper)
TH_LM	Fusing thermistor main (Back surface of paper)	HL_LM	Heater lamp main (Heat roller for back surface of paper)
TH_US	Fusing thermistor sub (Front surface of paper)	HL_US	Heater lamp sub (Heat roller for front surface of paper)

- SW-A Setting value when plain paper is selected in the system setting/device setting/fusing control setting.
- SW-B Set value when heavy paper is selected in the system setting/device setting/fusing control setting.

The set value displayed in this simulation differs depending on plain paper or heavy paper which is selected in the system setting/device setting/fusing control setting.

(Example) When plain paper is selected in the system setting/device setting/fusing control setting, the value of SW-A is displayed.

# List of destination groups

Group	Destination					
Group A	JAPAN	-	-	-	-	
Group B	U. S. A	CANADA	INCH	-	-	
Group C	EUROPE	U. K	AUS.	AB B	CHINA	

43-31	
Purpose	Adjustment/Setup
Function (Purpose)	Used to check the operation of the fusing web cleaning. (36cpm machine)
Section	Fusing

- 1) Press [EXECUTE] key. Cleaning the fusing web is performed.
- When cleaning the fusing web is completed, "COMPLETE" is displayed.

# Note

The set value may be changed for a design change or an individual arrangement. Except for the above cases, however, the set value must not be changed. If it is changed, a trouble may be occur.

Fusing web unit installation detection state	Operation	Remarks
Fusing web unit not installed	Does not operate	* During this operation, the fusing web cleaning feed
Fusing web unit installed	Operates for the specified time.	counter is counted up.

43-32	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set various items related to the forcible operation of web cleaning when job end. (36cpm machine)
Section	Fusing
Operation/Procedure	1

- 1) Select an item to be set with the scroll key.
- 2) Enter the set value with 10-key.
- Press [OK] key. The set value in step 2) is saved.

# Note

The set value may be changed for a design change or an individual arrangement. Except for the above cases, however, the set value must not be changed. If it is changed, a trouble may be occur.

lt	em/Display	Item	m Setting range		Default value	
Α	JOB END	Fusing web motor	Enable	0 - 1	0	1
	COMPACT	forcible operation	Disable		1	
	CHECK	condition when job end				
В	JOB END	Interval of the print quantity of		1 - 20	00	100
	COMPACT	compulsory action of the fusing				
	INTERVAL	web motor at job end				
С	JOB END	Number of forcible operations of		1 - :	5	1
	COMPACT	the fusing web motor wh				
	CNT	end				



44-1	
Purpose	Setting
Function (Purpose)	Used to set each correction operation function in the image forming (process) section.
Section	Image process (Photoconductor/Developing/Transfer/Cleaning)

### Operation/Procedure

- 1) Select an item to be set with the touch panel. (The selected item is highlighted.)
- 2) Press [EXECUTE] key. (The set value is saved.)

# Important

Set the items to the default values unless a change is specially required.

Item/ Display	Content	Setting range	Default value	NOTE
HV	Normal operation high	Normal	Enable	
	density process control	(Disable:		
	Enable/Disable setting	1: NO)		
HT	Normal operation	Reverse	Enable	
	halftone process control	(Enable:		
	Enable/Disable setting	0: YES)		
TC	Transfer output		Enable	
	correction Enable/			
	Disable setting			
MD VG	Membrane decrease		Enable	
	grid voltage correction			
	Enable/Disable setting			
MD LD	Membrane laser power		Disable	
	voltage correction			
	Enable/Disable setting			
MD EV	Membrane decrease		Enable	
	environment grid			
	voltage correction			
MD DL	Enable/Disable setting		Fashla	
MD DL	Membrane decrease		Enable	
	discharge light quantity correction Enable/			
	Disable setting			
MD DL EV	Membrane decrease		Disable	
IVID DL LV	environment discharge		Disable	
	light quantity correction			
	Enable/Disable setting			
TN PIX	Setting of Enable/		Enable	
SUP	Disable of toner supply			
	control for the yield			
	count			
TN FB	Setting of Enable/		Enable	
_	Disable of the toner			
	density correction for			
	the process control			
	result			
TN_INT	Setting of Enable/		Enable	
	Disable of toner			
	compulsory supply			
	correction for the			
	development traveling			
	distance			
TN_RECV	Setting of Enable/		Enable	
	Disable of the toner			
	density recovery			
TNI ADI	operation		- Fnoble	
TN_ADJ	Setting of Enable/ Disable of the toner		Enable	
	sensor control voltage			
	adjustment in the			
	process control			
	process contion	1	1	

		ı		
Item/	Content	Setting	Default	NOTE
Display		range	value	
TN_EMP	Setting of Enable/	Normal	Enable	
	Disable of the toner	(Disable:		
	falling distance	1: NO)		
	detection control	Reverse		
TN_EMP_	Setting of Enable/	(Enable:	Enable	
INT	Disable of the toner	0: YES)		
	falling distance			
	detection control of job			
	interruption			
TN_EMP_	Setting of Enable/		Enable	
NEW	Disable of the new			
	toner cartridge falling			
	distance detection			
	control			
TN_PIX_	Setting of Enable/		Enable	
TBL	Disable of execution of			
	revision of the yield			
	count conversion table			
	for the toner supply			
	control in the halftone			
	process control			
AR_AUTO	Auto registration		Enable	
	adjustment Enable/			
	Disable setting			
AR_ERROR	Auto registration		Enable	
	adjustment execution			
	error check Enable/			
	Disable setting			
DM_PHASE	Drum phase fitting		Enable	
	Enable/Disable setting			
PRT_HT	Halftone process		Enable	
	control printer			
	correction feedback			
	Enable/Disable setting			
PTC_ENV	PTC environment		Enable	Enable:
	correction Enable/			Correc-
	Disable setting			tion ON

44-2	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the sensitivity of the image density sensor (registration sensor).
Section	Process

When [EXECUTE] key is pressed, the adjustment is executed automatically.

After completion of the adjustment, the adjustment result is displayed.

If the adjustment is not executed normally, "ERROR" is displayed.

Classifi- cation	lte	em/Display	Content	Setting range	Default value
PROCON	Α	PCS_CL LED ADJ	Color image sensor light emitting quantity adjustment value	1 - 255	21
	В	PCS_K LED ADJ	Black image sensor light emitting quantity adjustment value	1 - 255	21
	С	PCS_CL DARK	Dark voltage of color image sensor	0 - 255	0
	D	PCS_K DARK	Dark voltage of black image sensor	0 - 255	0
	E	PCS_K GRND	Transfer belt substrate detection level when the item B adjustment is completed	0 - 255	0

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Classifi- cation	lte	em/Display	Content	Setting range	Default value
PROCON	F	PCS_K BELT MAX	Transfer belt substrate input max. value	0 - 255	0
	G	PCS_K BELT MIN	Transfer belt substrate input min. value	0 - 255	0
	Н	PCS_K BELT DIF	Transfer belt substrate input difference (Item E - Item F)	0 - 255	0
REGIST	ı	REG_F LED ADJ	Registration sensor light emitting quantity adjustment value F	1 - 255	56
	J	REG_F DARK	Registration sensor dark voltage F	0 - 255	0
	K	REG_F GRND	Transfer belt substrate detection level when the item I adjustment is completed	0 - 255	0
	L	REG_R LED ADJ	Registration sensor light emitting quantity adjustment value R	1 - 255	56
	М	REG_R DARK	Registration sensor dark voltage R	0 - 255	0
	N	REG_R GRND	Transfer belt substrate detection level when the item J adjustment is completed	0 - 256	0
	0	REG_F BELT MAX	Transfer belt substrate detection level max. value (F side)	0 - 255	0
	Р	REG_F BELT MIN	Transfer belt substrate detection level min. value (F side)	0 - 255	0
	Q	REG_F BELT DIF	Transfer belt substrate detection level difference (Item O - Item P)	0 - 255	0
	R	REG_R BELT MAX	Transfer belt substrate detection level max. value (R side)	0 - 255	0
	S	REG_R BELT MIN	Transfer belt substrate detection level min. value (R side)	0 - 255	0
	Т	REG_R BELT DIF	Transfer belt substrate detection level difference (Item R - Item S)	0 - 255	0
	U	REG_F PATCH (K)	Toner patch detection level F (K) in the registration adjustment	0 - 255	0
	V	REG_F PATCH (C)	Toner patch detection level F (C) in the registration adjustment	0 - 255	0
	W	REG_F PATCH (M)	Toner patch detection level F (M) in the registration adjustment	0 - 255	0

Classifi- cation	lte	em/Display	Content	Setting range	Default value
REGIST	Х	REG_F PATCH (Y)	Toner patch detection level F (Y) in the registration adjustment	0 - 255	0
	Y	REG_R PATCH (K)	Toner patch detection level R (K) in the registration adjustment	0 - 255	0
	Z	REG_R PATCH (C)	Toner patch detection level R (C) in the registration adjustment	0 - 255	0
	AA	REG_R PATCH (M)	Toner patch detection level R (M) in the registration adjustment	0 - 255	0
	AB	REG_R PATCH (Y)	Toner patch detection level R (Y) in the registration adjustment	0 - 255	0

Error name	Error content
Black sensor	PCS_K LED ADJ error
adjustment	The target is not reached by 3 times of
abnormality	adjustments.
Color sensor	PCS_CL LED ADJ error
adjustment	The target is not reached by 3 times of
abnormality	adjustments.
Substrate scan	PCS_K GRND error
abnormality	The difference between the max. value and the
	min. value of the substrate detection level is
	greater than the specified value when the transfer
	belt rotates one turn.
Registration sensor	REG_F LED ADJ error
F adjustment	The target is not reached by 3 times of
abnormality	adjustments.
Registration sensor	REG_R LED ADJ error
R adjustment	The target is not reached by 3 times of
abnormality	adjustments.
Registration	REG_F GRND error
substrate F scan	The difference between the max. value and the
abnormality	min. value of the substrate detection level is
	greater than the specified value when the transfer
	belt rotates one turn.
Registration	REG_R GRND error
substrate R scan	The difference between the max. value and the
abnormality	min. value of the substrate detection level is
	greater than the specified value when the transfer
	belt rotates one turn.

44-4	
Purpose	Setting
Function (Purpose)	Used to set the conditions of the high density process control operation.
Section	Process

- 1) Select an item to be set with scroll keys.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

# Important

Set the items to the default values unless a change is specially required.

	Item/Display	Content	Setting	Default
	nomi Biopiay	Contont	range	value
Α	PCS_CL TARGET	Color image sensor adjustment target value	1 - 255	98
В	PCS_K TARGET	Black image sensor adjustment target value	1 - 255	208
С	LED_CL OUTPUT	Color image sensor light emitting start level	1 - 255	21
D	LED_K OUTPUT	Black image sensor light emitting start level	1 - 255	21
Е	PCS ADJSTMENT LIMIT	Color image sensor adjustment error allowance level	1 - 255	4
F	BELT GROUND DIF	Transfer belt one-turn substrate detection level difference allowance level	1 - 255	1
G	BIAS_CL STANDARD DIF	Developing bias (for color) reference correction voltage	0 - 255	60
Н	BIAS_BK STANDARD DIF	Developing bias (for black) reference correction voltage	0 - 255	0
ı	BIAS PATCH INTERVAL	Toner patch making developing bias interval	1 - 255	60
J	Y_PAT TARGET ID	Process control target density level (yellow)	1 - 255	111
K	M_PAT TARGET ID	Process control target density level (magenta)	1 - 255	135
L	C_PAT TARGET ID	Process control target density level (cyan)	1 - 255	128
М	K_PAT TARGET ID	Process control target density level (black)	1 - 255	45
N	HV BK_GROUND LIMIT	Black image sensor adjustment error allowance level	1 - 255	60

44-6		
Purpose	Adjustment	
Function (Purpose)	Used to execute the high density process control forcibly.	
Section	Process	
Operation/Procedure	1	

#### Operation/Procedure

Press [EXECUTE] key.

In case of a normal completion, the result is saved.

In case of an abnormal completion, "ERROR" is displayed. (Refer to the table below.)

In case of an ERROR, the previous correction data are saved.

Result display	Content description
COMPLETE	Normal complete
ERROR	Abnormal end
INTERRUPTION	Forcible interruption

Details of error display	Content description
CL_SEN_ADJ_ERR	Color image sensor adjustment abnormality
BK_SEN_ADJ_ERR	Black image sensor adjustment abnormality
K_HV_ERR	K high density process control abnormality
C_HV_ERR	C high density process control abnormality
M_HV_ERR	M high density process control abnormality
Y_HV _ERR	Y high density process control abnormality
TIMEOUT ERR	Time out

44-9		
Purpose	Operation data display	
Function (Purpose)	Used to display the result data of the high density process control operation.	
Section	Image process (Photoconductor/Developing/Transfer/Cleaning)	

Select a target display mode with [CPY/PRN], [OTHER] keys.

Mode	Iten	n/Display (*: Correction value)	Content	Display range	Default value
CPY/PRN	P (PROCON)	BLACK : GB ***/*** DV ***/***	High density process control mode	GB: 150 - 850	GB: 630
		CYAN : GB ***/*** DV ***/***	GB/DV data (KCMY)	DV: 0 - 600	DV: 430
		MAGENTA : GB ***/*** DV ***/***	(Output voltage level/base voltage level)		
		YELLOW : GB ***/*** DV ***/***			
	N(M)	BLACK : GB ***/*** DV ***/***	Medium speed print mode	GB: 150 - 850	GB: 630
	(NORMAL	CYAN : GB ***/*** DV ***/***	GB/DV data (KCMY)	DV: 0 - 600	DV: 430
	(MIDDLE))	MAGENTA : GB ***/*** DV ***/***	(Actual output voltage level/base voltage level)		
		YELLOW: GB ***/*** DV ***/***			
	N(L)	BLACK : GB ***/*** DV ***/***	Low speed print mode	GB: 150 - 850	GB: 600
	(NORMAL	CYAN : GB ***/*** DV ***/***	GB/DV data (KCMY)	DV: 0 - 600	DV: 400
	(LOW))	MAGENTA : GB ***/*** DV ***/***	(Actual output voltage level/base voltage level)		
		YELLOW: GB ***/*** DV ***/***			
THER	TN/TC	TN HUD AREA	Toner density correction humidity area	1 - 8	4
		TN HUD DATA	Toner density correction humidity AD value	0 - 1023	0
		TC TMP AREA	Transfer correction temperature area	1 - 9	4
		TC TMP DATA	Transfer correction temperature AD value	0 - 1023	0
		TC HUD AREA	Transfer correction humidity area	1 - 9	4
		TC HUD DATA	Transfer correction humidity AD value	0 - 1023	0
		MD HUD AREA	Membrane decrease correction humidity area	1 - 8	4
		MD HUD DATA	Membrane decrease correction humidity AD value	0 - 1023	0
	DRUM	MD K STEP	Drum membrane decrease correction STEP level	0 - 4	0
	BICOM	MD C STEP	(KCMY)	0 1	
		MD M STEP	( )		
		MD Y STEP	+		
		MD K DRUM COUNTER	Membrane decrease drum traveling distance area	0 - 20	0
		MD C DRUM COUNTER	(KCMY)	0 - 20	0
		MD M DRUM COUNTER	(KOMT)		
		MD Y DRUM COUNTER	-		
	LIFE		MO anid according welfand level (for the drawn	0 055	0
	LIFE	MD K REVISE(LIFE) : L *** M ***  MD C REVISE(LIFE) : L *** M ***	MC grid correction voltage level (for the drum membrane decrease) (KCMY)	0 - 255	0
			membrane decrease) (NCWT)		
		MD M REVISE(LIFE) : L *** M ***			
		MD Y REVISE(LIFE) : L *** M ***	110		
	EV	MD K REVISE(EV) : L *** M ***	MC grid voltage correction level (for the	0 - 255	0
		MD C REVISE(EV) : L *** M ***	environment) (KCMY)		
		MD M REVISE(EV) : L *** M ***			
		MD Y REVISE(EV) : L *** M ***			
	ALL	MD K REVISE(ALL) : L *** M ***	MC grid voltage correction level (for the drum	0 - 255	0
		MD C REVISE(ALL) : L *** M ***	membrane decrease) (KCMY)		
		MD M REVISE(ALL) : L *** M ***			
		MD Y REVISE(ALL) : L *** M ***			
	LD	MD K REVISE(LD) : L *** M ***	Laser power correction level (for the drum	0 - 255	0
		MD C REVISE(LD) : L *** M ***	membrane decrease) (KCMY)		
		MD M REVISE(LD) : L *** M ***			
-		MD Y REVISE(LD) : L *** M ***			
	DL	MD K REVISE COL (DL): L *** M ***	Discharge lamp correction level (%) (for the drum	0 - 100	70
		MD C REVISE COL (DL): L *** M ***	membrane decrease)		
		MD M REVISE COL (DL): L *** M ***			
		MD Y REVISE COL (DL): L *** M ***			
	DL EV	MD K REVISE COL (DL EV): L *** M ***	Discharge lamp correction level (%) (for the	-100 - 100	0
		MD C REVISE COL (DL EV): L *** M ***	environment)		
		MD M REVISE COL (DL EV): L *** M ***			
		MD Y REVISE COL (DL EV): L *** M ***	1		

Mode	Iten	n/Display (*: Correction value)	Content	Display range	Default value
OTHER	CRUM	DESTINATION	CRUM destination (Main unit data)	-	-
		MODEL TYPE	Machine model type	0 - 1	0
		CRUM DEST_K	CRUM destination (CRUM data)	-	-
		CRUM DEST_C			
		CRUM DEST_M			
		CRUM DEST_Y			
	CNT	PROCON COUNT HV	High density process control number of executions	0 - 99999999	0
		PROCON COUNT HT	Halftone process control number of executions	0 - 99999999	0

44-12		
Purpose	Operation data display	
Function (Purpose)	Used to display the operation data of the high density process control and the image density sensor (registration sensor).	
Section	Image process (Photoconductor/Developing)	

Select a display mode with [TARGET] [PATCH] keys.

Mode	Item/Display	Content	Display range	Default value
TARGET	CARB DATA	Standard reflection plate detection level	0 - 255	108
	SEAL ADJ DATA	Jig patch seal detection level when executing SIM 44-13	1 - 255	108
	ADK_SL (K)	Development characteristics gradient coefficient (High density process control operation)	-9.99 - 9.99	0
	ADK_INT(K)	Development characteristics intercept level (High density process control operation 0V)	-999.9 - 999.9	0
	TARGET (K)	High density process control target density level (K)	0.00 - 255.00	0
	TARGET (C/M/Y)	High density process control target density level (C/M/Y)	0.00 - 255.00	0
PATCH	n-1	High density process control nth time toner patch density level 1 (n=1-5)	0 - 255	0
	n-2	Toner patch data nth time patch 2 (n=1-5)	0 - 255	0
	n-3	Toner patch data nth time patch 3 (n=1-5)	0 - 255	0
	n-4	Toner patch data nth time patch 4 (n=1-5)  • BK only	0 - 255	0
	n-5	Toner patch data nth time patch 5 (n=1-5)  • BK only	0 - 255	0
PATCH	n-1	Toner patch data nth time patch 1 (n=6-10)	0 - 255	0
	n-2	Toner patch data nth time patch 2 (n=6-10)	0 - 255	0
	n-3	Toner patch data nth time patch 3 (n=6-10)	0 - 255	0
	n-4	Toner patch data nth time patch 4 (n=6-10)  • BK only	0 - 255	0
	n-5	Toner patch data nth time patch 5 (n=6-10)  • BK only	0 - 255	0

44-13	
Purpose	Adjustment/Setup
Function (Purpose)	Used to perform the color image sensor
	(image registration sensor F) calibration.
Section	

# Operation/Procedure

- 1) Remove the BK developing unit, the BK OPC drum unit, and the primary transfer unit. Attach the calibration jig.
- Press [EXECUTE] key.
   Calibration is performed, and the data are displayed.
- 3) Install the BK developing unit, the BK OPC drum unit, and the primary transfer unit.
- 4) Press [EXECUTE] key.

	Item/Display	Content	Setting range	Default value
Α	PCS_CL CARB OUT	Calibration plate sensor value	1 - 255	108
В	PCS_CL LED ADJ	Color sensor light emitting quantity adjustment value	1 - 255	21

Error display	Content
SEN ADJ ERR	Color image sensor sensitivity adjustment abnormality
SHUTTER CLOSE ERR	Primary transfer operation abnormality
ERROR	Compulsory stop

44-14		
Purpose	Operation data display	
Function (Purpose)	Used to display the output level of the temperature and humidity sensor.	
Section	Process (OPC drum, development)/Fusing/ LSU	

# Operation/Procedure

The output levels of the fusing temperature sensor, the machine temperature sensor, and the humidity sensor are displayed.

Item/Display	Content	Display range
TH_UM	Fusing main thermistor	Temperature:
	differential input level (°C) /	0 - 255°C (±1°C)
	(AD value)	AD value: 0-1023
TH_UM_AD1	Fusing thermistor detection	Temperature:
	level for compensation (°C)	0.0-255.0°C (±0.2°C)
	/ (AD value)	AD value: 0-1023
TH_UM_AD2	Fusing thermistor detection	AD value: 0-1023
	level (AD value)	
TH_LM	Fusing thermistor A/D value	Temperature:
	(temperature °C) (Fusing	0 - 255°C (±1°C)
	roller B edge)	AD value: 0-1023
TH_US	Fusing sub thermistor A/D	Temperature:
	value (temperature °C)	0 - 255°C (±1°C)
	(Fusing belt)	AD value: 0-1023
TEMPRATURE	Process control thermistor	Temperature:
	detection level	-40.0 - 60.0°C (±0.1°C)
		AD value: 0-1023

Item/Display	Content	Display range
HUMIDITY	Process control humidity sensor detection level	Humidity: 5.0-90.0% (±0.1%), AD value: 0-1023
TH1_LSU	LSU thermistor detection level (A/D value) (°C)	Temperature: 5.0-60.0°C (±0.1°C) AD value: 0-255

44-15	
Purpose	Setting
Function (Purpose)	Used to set the OPC drum idle rotation.
Section	Process

- 1) Select an item to be set with the scroll key.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The initial value must be set unless any special change is required.

	ltem/ Display	Content	Setting range	Default value
Α	TIME	Idle rotation interval (time interval between the previous OPC drum idle rotation and the next one) setting (h)	0 - 255	6
В	AREA1	Environmental area difference judgment threshold value setting (difference between the previous OPC drum idle rotation and the current one)	0 - 5	2
С	AREA2	Environmental area conditions (AND condition of the previous OPC drum idle rotation and the current one)	1 - 15	1
D	CYCLE	Previous rotation time setting (sec) in the process control when recovered from power ON, preheating/sleep mode.	0 - 255	0

The execution YES/NO of the OPC drum idle rotation is determined by the AND condition of TIME, AREA1, and AREA 2.

To execute the OPC drum idle rotation, set item B (AREA 1) to "0," and item C (AREA2) to "15."

However, idle rotation is performed in a certain interval while in shut off. This must be fully explained to the user.

44-21	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the halftone process control target.
Section	Process

# Operation/Procedure

Press [EXECUTE] key.

The halftone process control target is set and the operation data are displayed.

Display	Content
COMPLETE	Normal complete
ERROR COLOR SENSOR ADJUSTMENT	Color image density sensor sensitivity adjustment error
ERROR BLACK SENSOR ADJUSTMENT	Black image density sensor sensitivity adjustment error
[YMCK]	High density process control error [YMCK]
OTHER	Other errors

44-22	
Purpose	Operation data display
Function (Purpose)	Used to display the toner patch density level in the halftone process control operation.
Section	Process

# Operation/Procedure

 Select the display mode with [1ST STEP],[2ND STEP] key.
 The toner patch density level made in the halftone process control operation is displayed.

Item/Display	Content
ID_n	Patch data display (PTK: n = 1 - 24, PTC/PTM/PTY: n = 1 - 16)
BASE1	Belt substrate data (START)
BASE5	Belt substrate data (LAST)

44-24	
Purpose	Operation data display
Function (Purpose)	Used to display the correction target and the correction level in the halftone process control operation.
Section	Process

# Operation/Procedure

- 1) Select the display category with [NEXT] key.
- 2) Select a target adjustment color with [K] [C] [M] [Y] key.

Category	Item/Display	Content
Coefficient	[EX-LOW]	Coefficient of the approximation formula of the minimum density
	[LOW]	Coefficient of the approximation formula of the low density
	[CONNECT]	Coefficient of the approximation formula of when connecting the low density and the medium density
	[MID]	Coefficient of the approximation formula of the medium density
	[HIGH]	Coefficient of the approximation formula of the high density
	[CONNECT POINT]	Each density section connection output ratio
Reference value	[SENSOR_TARGET]	Halftone process control reference value
Correction value	[S_VALUE]	Halftone process control correction value
For printer	[PRINTER_S_VALUE]	Printer halftone process control correction value
	[PRINTER_BASE_ DITHER_VALUE]	Printer halftone process control reference dither value
	[PRINTER_AUTO_ HT_VALUE]	Printer auto density adjustment correction value
Previous correction value	[BEFORE S_VALUE]	Previous halftone process control value

44-25	
Purpose	Setting
Function (Purpose)	Used to set the calculating conditions of the correction value for the halftone process control.
Section	Process

- 1) Select a target adjustment color with [K] [C] [M] [Y] key.
- Select a target adjustment density level with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key.



Set the items to the default values unless a change is specially required.

Item/Display		Content	Setting	Default value	
			range	K	CMY
Α	LOW FIELD LOWER LIMIT	Low density approximate expression data lower limit value	0 - 255	98	2
В	LOW FIELD UPPER LIMIT	Low density approximate expression data upper limit value	0 - 255	60	40
С	MID FIELD LOWER LIMIT	Medium density approximate expression data lower limit value	0 - 255	90	15
D	MID FIELD UPPER LIMIT	Medium density approximate expression data upper limit value	0 - 255	6	144
E	HIGHLIGHT POINT	Reference point of the highlight correction amount	1 - 8	7	7
F	HIGHTLIGHT VALUE LIMIT	Highlight correction amount limit value	0 - 128	20	20
G	MAX VALUE LIMIT	Maximum density value correction limit value	0 - 128	20	20

44-26	
Purpose	Adjustment/Setup
Function (Purpose)	Used to execute the halftone process control compulsory.
Section	Process

# Operation/Procedure

Press [EXECUTE] key.

The halftone process control is performed and the operation data are displayed.

COMPLETE	Normal complete
ERROR COLOR SENSOR ADJUSTMENT	Color image density sensor sensitivity adjustment error
ERROR BLACK SENSOR ADJUSTMENT	Black image density sensor sensitivity adjustment error
[YMCK]	High density process control error [YMCK] error
OTHER	Other errors

44-27	
Purpose	Data clear
Function (Purpose)	Used to clear the correction data of the half-tone process control.
Section	Process
O	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The correction data of the halftone process control are cleared.

44-28	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the process control execution conditions.
Section	Process

## Operation/Procedure

- Select a target item of setting with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)



Set the items to the default values unless a change is specially required.

Mode		Item/Displa	ay	Content		Setting rar	nge	Default value		
Process control	Α	INITIAL	YES	When warm-up after clearing the counter	Enable	0 - 1	0	0		
Enable/Disable			NO	of the OPC drum and the developer unit	Disable		1			
setting	В	SW ON		When supplying the power (when	Color process control	0 - 3	0	3		
				canceling power shut-off)	Enable					
					Process control Disable		1			
					BK process control Enable		2			
					Pixel count judgment		3			
	С	TIME		After passing the specified time from	Color process control	0 - 3	0	3		
				leaving READY continuously (Time can be	Enable					
				changed by INTERVAL TIME)	Process control Disable		1			
					BK process control Enable		2			
					Pixel count judgment		3			
	D	HUM_LIMI7	-	HUM judgment is made when turning ON	Color process control	0 - 2	0	0		
		_		the power and after passing INTERVAL	Enable					
				TIME.	Process control Disable		1			
					BK process control Enable		2			
	Е	HUM		The temperature and humidity inside the	Color process control	0 - 2	0	0		
		110111		machine are monitored only during a job at	Enable	0 2		Ů		
				the interval set by the item of HUM HOUR.	Process control Disable		1			
				When the changes in the temperature and	BK process control Enable		2			
				the humidity are greater than the specified	BK process control Enable					
				level (the set value of item HUM DIF) in						
						comparison with the previous process				
				control.						
	F	REV1	YES	When the accumulated traveling distance	Enable	0 - 1	0	0		
			NO	of K or M OPC drum unit reaches the	Inhibit		1			
			1	specified level after turning ON the power.			-			
	G	REV2 BK	YES	When the accumulated traveling distance	Enable	0 - 1	0	0		
		_	NO	of K OPC drum unit reaches the specified	Inhibit		1			
			1	level from execution of the previous			-			
				density correction.						
	Н	REV2_CL	YES	When the accumulated traveling distance	Enable	0 - 1	0	0		
			NO	of M OPC drum unit reaches the specified	Inhibit		1	1		
				level from execution of the previous						
				density correction.						
	I	REFRESH	YES	Select of YES/NO of the manual process	Key operation display	0 - 1	0	1		
		MODE	NO	control key with key operation	Key operation NO display		1			
Setting of the	J	DAY		When there is no color job from when the	0: Disable of the specified	0 - 999	0	1		
execution					previous color process control was	days judgment			,	
conditions of				performed to when the number of days set	1 - 999: 1 - 999 days		999			
the process						by this item setting, perform the process	passing		000	
control				control when executing the next warming	, , , ,					
				up.						
	K	HI-COV		Setting of the execution conditions of the	The process control is	0 - 2	0	0		
				process control for the print ratio	performed by considering					
					the average print ratio of					
					every 10 pages as the					
					judgment criteria.					
					Print ratio judgment inhibit		1			
					(The process control for					
					the target of print ratio is					
					not performed.)					
					The process control is		2			
					performed by considering					
					the average print ratio of					
					30 pages as the judgment					
					criteria in a continuous					
					print job of 30 or more					
	1				pages.		1			

Mode	e Item/Display			Content	Setting range	9	Default value	
Setting of the execution	L	LO-COV		Setting of the execution judgment of the process control in continuous printing of	Enable Inhibit	0 - 1	0	0
conditions of the process control	М	TonerCA-EN	ND	low print ratio images  Setting of the process control interval reduction when the toner cartridge remaining quantity is 25% or less (If this is set to Enable, item M RATIO is changed.)	0 - 1	0	1	
	N	AVERAGE-I	PAGE	Setting of the number of pages of item HI- COV set value 2	1: 10 pages - 5: 50 pages 1 step corresponds to 10 pages.	1 - 5	1 5	3
	0	LIMIT PAGE	Ē	Setting of the number of connected jobs of the process control and of the limit number of the process control  A number of reservation jobs are connected. When the number of jobs exceeds the specified number of pages (the set value of this setting), the process control is performed. / The process control is performed by AND conditions of item REV condition and the specified number of pages (the set value of this setting).	1: 10 pages - 10: 100 pages 1 step corresponds to 10 pages.	1 -10	10	10
	Р	PIX_RATIO	_BK	Magnification ratio setting (%) of the BK ton The set value of 100 corresponds to K print	1 - 999	ı	10	
	Q	PIX_RATIO	_CL	Magnification ratio setting (%) of the color (value The set value of 100 corresponds to K print	CMY) toner count specified	1 - 999		10
	R	INTERVAL	TIME	Setting of the leaving time when turning ON sleep recovery time) (h: hour)		1 - 255		3
	S	HUM HOUF	2	Interval setting of the temperature and hum "HUM" (unit: 10 minutes)	1 - 24		2	
	Т	HUM_DIF		The specified value of the area difference in at execution of the previous control and the item HUM)	1 - 9		2	
	U	BK_RATIO		Magnification ratio setting (%) of the specifi drum traveling distance of "REV2_BK"	1 - 999 (Entry of 20 corresponds to 100,000mm.)		15	
	V	M_RATIO		Magnification ratio setting (%) of the M OPC "REV2_CL"	1 - 999 (Entry of 20 corresponds to 100,000mm.)		15	
	W	COLOR BO	RDER	Judgment criteria whether the BK high density process control is individually performed or not (Setting of the ratio of the M OPC drum rotation distance for the K OPC drum rotation distance (%))  0: The BK process control is executed regardless of the M OPC drum traveling distance.  1 - 999: 1 - 999(%)		0 - 999		20
	Х	BK ONLY		Setting of the frequency of execution of the 4-color high density process control when only monochrome output is continued (The result of this setting is applied only when the M OPC drum rotation distance is smaller than the set value of COLOR BORDER.)	Frequency of once for 5 times Frequency of once for 1 - 5 times The 4-color high density process control is always performed.	0 - 6	0 1 - 5 6	5
Setting of the	Y Z	HT_DIF RG ON	CL	HT process control execution judgment dev Setting of execution of the registration adjus-		1 - 255 When the color	0	40 0
execution condition of the		SYNC		process control when turning ON the power	•	process control is executed.		
registration adjustment			ALL			regardless of the process control.	1	
			CL/BK			When the color process control and the K process control are executed.	2	
	AA	RG_TEMP_	TIMER	Time interval from registration adjustment a the next execution.	0 - 240 (MINUTE)		0	
	AB	RG_PERM_	TIMER	Setting of inhibit time of execution of the rec	gistration adjustment	0 - 15 (HOUR)		1
	AC	RG_HOUR_	_TIMER	Setting of the interval time of execution of the	ne registration adjustment	0 - 15 (Above)+(HOU	R)	5
	AD	RG_BW_S\	/NC	Setting of Enable/Disable of the registration adjustment after a monochrome job	Enable Inhibit	0 - 1	0	1

Mode Item/Display		Item/Display	Content	Setting range	Default value
Setting of the secondary transfer AE 2TRAN TIME1		2TRAN_CLEAN_ TIME1	Secondary transfer cleaning process time judgment threshold value 1 (The total number of sheets for cleaning execution conditions) (Cleaning time: Short)	5 - 999	200
cleaning conditions	AF	2TRAN_CLEAN_ TIME2	Secondary transfer cleaning process time judgment threshold value 2 (The total number of sheets for cleaning execution conditions) (Cleaning time: Medium)	5 - 999	300
	AG	2TRAN_CLEAN_ TIME3	Secondary transfer cleaning process time judgment threshold value 3 (The total number of sheets for cleaning execution conditions) (Cleaning time: Long)	5 - 999	500

When REFRESH MODE setting is enabled (0), the menu of the user process control execution button is displayed on the user system setting menu.

When the color balance or the density change is not within the allowable range, the user can perform the process control manually and forcibly. However, toner is consumed grater than as usual. This point must be explained to the user clearly.

44-29	
Purpose	Setting
Function (Purpose)	Used to set the operating conditions of the process control during a job.
Section	Process

# Operation/Procedure

- Select a target item of setting with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

	Item/Display Content			Setting range			
Α	COPY	During copy job	0 - 2	0: No execution	on	2	
В	PRINTER	During print job		1: HV only			
С	FAX	During FAX print job		2: HV → HT		2	
D	SELF PRINT	During self print				2	
Е	CPY TO PRT TABLE	Halftone process control copier - printer conversion table select	0 - 1	0:CALCULA TED	0: Color balance calculation value (Revised every time when SIM46-74 is executed.)	0	
		printer conversion table select		1:DEFAULT	1: Default (Fixed value)		

HV: High density process control

HT: Halftone process control

44-31	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the OPC drum phase. (Manual adjustment)
Section	Process

## Operation/Procedure



For the OPC drum phase adjustment, do not use this simulation, but use SIM50-22 (auto adjustment).

- 1) Select item A with scroll key.
- Enter the value corresponding to the adjustment pattern with 10-key.
- 3) Press [EXECUTE] key. (The adjustment pattern is printed out.)
- Select an adjustment pattern whose deflection is within two scale lines on the adjustment pattern of C,M, Y colors.
- 5) Select item B with scroll key.
- Enter the adjustment pattern sheet number selected in procedure 4).
- 7) Press [EXECUTE] key.
- 8) The adjusted adjustment pattern is printed.

44-37	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the development bias correction level in the continuous printing operation.
Section	

# Operation/Procedure

- 1) Select a set target color with the touch panel.
- 2) Select a target item with scroll keys.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key. (The set value is saved.)



When the print density is varied in the continuous printing operation, this simulation is used.

			Item/D	Item/Display		value	
			Black	CMY	Black	CMY	Variable range
Current DV Bias voltage	Low speed mode	less than 300 [v]	Α	Α	0	0	0-5
	Heavy paper mode	300 [v] or more, less than 450 [v]	В	В	0	0	(*1)
		450 [v] or more	С	С	0	0	
	Middle speed mode	less than 300 [v]	D	D	0	0	
		300 [v] or more, less than 450 [v]	Е	E	0	0	
		450 [v] or more	F	F	0	0	
	High speed mode	less than 300 [v]	G	-	0	-	
	Monochrome mode	300 [v] or more, less than 450 [v]	Н	-	0	-	
		450 [v] or more	I	-	0	-	
Time (T) from termination of	Low speed mode	Less than 10 [sec] & after process control JOB	J	G	4	4	1-12
continuous outputs to start of	Heavy paper mode	10 [sec] or more, less than 60 [sec]	K	Н	3	3	
the next output operation		60 [sec] or more, less than 240 [sec]	L	I	1	1	
		240 [sec] or more	М	J	1	1	
	Middle speed mode	Less than 10 [sec] & after process control JOB	N	K	4	4	
		10 [sec] or more, less than 60 [sec]	0	L	3	3	
		60 [sec] or more, less than 240 [sec]	Р	M	1	1	
		240 [sec] or more	Q	N	1	1	
	High speed mode	Less than 10 [sec] & after process control JOB	R	-	4	-	
	Monochrome mode	10 [sec] or more, less than 60 [sec]	S	-	3	-	
		60 [sec] or more, less than 240 [sec]	Т	-	1	-	
		240 [sec] or more	U	-	1	-	

# <Use example>

(\*1)

Make multi copy of 10 sheets. If the density of 10th sheet is greater than that of the first sheet, decrease the set value. Make multi copy of 10 sheets. If the density of 10th sheet is smaller than that of the first sheet, increase the set value. When the set value is 0 (Default), the correction level does not work.

44-43	
Purpose	Data display
Function (Purpose)	Used to display the identification information of the developing unit.
Section	Developing system

# Operation/Procedure

The identification number and the identification signal level of the developing unit are displayed.

	Item/Display	Content	Display range	NOTE
Α	DVCH KIND K	K developing unit identification number	1 - 9	The model identification number of the developing unit which
В	DVCH KIND C	C developing unit identification number	1 - 9	is backed up in the EEPROM of the machine.
С	DVCH KIND M	M developing unit identification number	1 - 9	
D	DVCH KIND Y	Y developing unit identification number	1 - 9	
Е	DV_TYP_SEL_K	K developing unit identification detection	0 - 1	0 = High (Open)
F	DV_TYP_SEL_C	C developing unit identification detection	0 - 1	1 = Low (GND)
G	DV_TYP_SEL_M	M developing unit identification detection	0 - 1	
Н	DV_TYP_SEL_Y	Y developing unit identification detection	0 - 1	
I	DVCH_AD_K	K developing unit identification AD value	0 - 255	AD value of the developing unit identification voltage
J	DVCH_AD_C	C developing unit identification AD value	0 - 255	
K	DVCH_AD_M	M developing unit identification AD value	0 - 255	
L	DVCH_AD_Y	Y developing unit identification AD value	0 - 255	

 $<sup>^{\</sup>star}\,$  The developing unit is identified by the combination of items E, F, G, H and items I, J, K, and L.

44-61	
Purpose	Adjustment
Function (Purpose)	Used to adjust the color image density sensor. (The adjustment is made according to the input of SIM44-13 to set the target value of the color sensor gain adjustment.)
Section	
Operation/Procedure	•

- 1) Select an adjustment target item with scroll key.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

	Item/Display	Content	Setting range	Default value
Α	PCS_CL CARB OUT	Calibration plate sensor value	1 - 255	108
В	PCS_CL LED ADJ	Color sensor light emitting quantity adjustment value	1 - 255	21

44-62	
Purpose	Setup/Adjustment
Function (Purpose)	Used to set the process control execution conditions.
Section	Process

This simulation allows collective change in the set contents of SIM44-4 and SIM44-28.

A suitable one is selected among a number of options depending on the condition.

1) Select an item to be set.

To change the image density in the high density area, select PROCON TARGET.

To change the frequency of the process control operations, select PROCON MODE.

Di	splay/Item	Content
PROCON TARGET	CL ID DOWN	The densities of C, M, and Y decrease. (The C/M/Y high density process control target values decrease.)
	CL ID UP	The densities of C, M, and Y increase. (The C/M/Y high density process control target values increase.)
	BK ID DOWN	The density of K decreases. (The high density process control target value decreases.)
	BK ID UP	The density of K increases. (The high density process control target value increases.)
	ALL ID DOWN	The densities of C, M, Y and K decrease. (The C/M/Y/K high density process control target values decrease.)
	ALL ID UP	The densities of C, M, Y and K increase. (The C/M/Y/K high density process control target values increase.)
	NORMAL	The standard density of C, M, Y and K. (The C/M/Y/K high density process control target values are the standard values.)

Dis	splay/Item	Content		
PROCON MODE	HIGH QUALITY1	The execution frequency of the process control is high. (It is set when the color image quality is given priority.)		
	HIGH QUALITY2 The execution frequency of the picontrol is highest. (It is set when the image quality is given priority.)			
	PRINT PERFORMANCE	The execution frequency of the process control is low. (It is set when the job speed is given priority.)		
	BW MODE	The process control is executed in the normal frequency. (It is set when there are little color jobs and many monochrome jobs.)		
	NORMAL	The process control is executed in the normal frequency.		

(When PROCON TARGET is selected.)

2A) Select the density level.

(When PROCON MODE is selected.)

- 2B) Select the execution frequency of the process control.
- 3) Press [EXECUTE] key.
- 4) Press [YES] key.



This simulation may not function with some firmware versions. In such a case, the firmware must be upgraded to the latest version.

46-1	
Purpose	Adjustment (Color copy mode)
Function (Purpose)	Used to adjust the copy density in the copy mode.
Section	mode.

# Operation/Procedure

- 1) Select an adjustment target item with scroll key on the touch
- 2) Enter the set value with 10-key.
  - \* When the  $\triangle \ \, riangledown$  key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 3) Press [OK] key. (The set value is saved.)

To adjust the copy density in the low density area, select the "LOW" mode and change the adjustment value. To adjust the copy density in the high density area, select the "HIGH" mode and change the adjustment value.

When the adjustment value is increased, the copy density is increased. When the adjustment value is decreased, the copy density is decreased.

#### 18cpm/20cpm/23cpm/31cpm(G) machine

	Item/Display	Content		Setting range	Default value
Α	AUTO	Auto	LOW	1 - 99	50
			HIGH	1 - 99	50
В	TEXT	Text	LOW	1 - 99	50
			HIGH	1 - 99	50
С	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO	Photo	HIGH	1 - 99	50
D	TEXT/PHOTO	Text/Photograph	LOW	1 - 99	50
			HIGH	1 - 99	50
Е	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
			HIGH	1 - 99	50
F	PHOTOGRAPH	Photograph	LOW	1 - 99	50
			HIGH	1 - 99	50

	Item/Display	Content		Setting range	Default value
G	MAP	Мар	LOW	1 - 99	50
			HIGH	1 - 99	50
Н	LIGHT	Light document	LOW	1 - 99	50
			HIGH	1 - 99	50
I	TEXT(COPY TO	Text (Copy	LOW	1 - 99	50
	COPY)	document)	HIGH	1 - 99	50
J	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO (COPY TO	Photo (Copy	HIGH	1 - 99	50
	COPY)	document)			
K	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
	(COPY TO COPY)	(Copy document)	HIGH	1 - 99	50
L	TEXT (COLOR	Text (Color tone	LOW	1 - 99	50
	TONE	enhancement)	HIGH	1 - 99	50
	ENHANCEMENT)				
М	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO (COLOR TONE	Photo (Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
N	TEXT/PHOTO	Text/Photograph	LOW	1 - 99	50
'	(COLOR TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)	111011	1 33	50
0	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
	(COLOR TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
Р	PHOTOGRAPH	Photograph	LOW	1 - 99	50
	(COLOR TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
Q	MAP (COLOR	Map	LOW	1 - 99	50
	TONE ENHANCEMENT)	(Color tone enhancement)	HIGH	1 - 99	50
R	SINGLE COLOR	Single color	LOW	1 - 99	50
			HIGH	1 - 99	50
S	SINGLE COLOR	Single color	LOW	1 - 99	50
1	(COPY TO COPY)	(Сору	HIGH	1 - 99	50
		document)			
Т	TWO COLOR	2-color (red/	LOW	1 - 99	50
		black) copy	HIGH	1 - 99	50
U	TWO COLOR	2-color (red/	LOW	1 - 99	50
	(COPY TO COPY)	black) copy	HIGH	1 - 99	50
		(copy document)			

# 26cpm/36cpm/31cpm(A) machine

	Item/Display	Content		Setting range	Default value
Α	AUTO	Auto	LOW	1 - 99	50
			HIGH	1 - 99	50
В	TEXT	Text	LOW	1 - 99	50
			HIGH	1 - 99	50
С	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO	Photo	HIGH	1 - 99	50
D	TEXT/PHOTO	Text/Photograph	LOW	1 - 99	50
			HIGH	1 - 99	50
Ε	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
			HIGH	1 - 99	50
F	PHOTOGRAPH	Photograph	LOW	1 - 99	50
			HIGH	1 - 99	50
G	MAP	Мар	LOW	1 - 99	50
			HIGH	1 - 99	50
Н	LIGHT	Light document	LOW	1 - 99	50
			HIGH	1 - 99	50
1	TEXT(COPY TO	Text (Copy	LOW	1 - 99	50
	COPY)	document)	HIGH	1 - 99	50
J	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO (COPY TO	Photo (Copy	HIGH	1 - 99	50
	COPY)	document)			
K	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
	(COPY TO COPY)	(Copy document)	HIGH	1 - 99	50
L	TEXT (COLOR	Text (Color tone	LOW	1 - 99	50
	TONE ENHANCEMENT)	enhancement)	HIGH	1 - 99	50

	Item/Display	Content		Setting	Default
	iteiii/Dispiay	Content		range	value
M	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO (COLOR	Photo	HIGH	1 - 99	50
	TONE	(Color tone			
	ENHANCEMENT)	enhancement)			
Ν	TEXT/PHOTO	Text/Photograph	LOW	1 - 99	50
	(COLOR TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
0	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
	(COLOR TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
Р	PHOTOGRAPH	Photograph	LOW	1 - 99	50
	(COLOR TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
Q	MAP (COLOR	Мар	LOW	1 - 99	50
	TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
R	LIGHT (COLOR	Light document	LOW	1 - 99	50
	TONE	(Color tone	HIGH	1 - 99	50
	ENHANCEMENT)	enhancement)			
S	SINGLE COLOR	Single color	LOW	1 - 99	50
			HIGH	1 - 99	50
Т	SINGLE COLOR	Single color	LOW	1 - 99	50
	(COPY TO COPY)	(Сору	HIGH	1 - 99	50
		document)			
U	TWO COLOR	2-color (red/	LOW	1 - 99	50
		black) copy	HIGH	1 - 99	50
V	TWO COLOR	2-color (red/	LOW	1 - 99	50
	(COPY TO COPY)	black) copy	HIGH	1 - 99	50
		(copy document)			

46-2	
Purpose	Adjustment (Monochrome copy mode)
Function (Purpose)	Used to adjust the copy density in the copy mode.
Section	
Operation/Procedure	

- 1) Select an adjustment target item with scroll key on the touch
- 2) Enter the set value with 10-key.
  - \* When the  $\triangle$   $\triangledown$  key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 3) Press [OK] key. (The set value is saved.)

To adjust the copy density in the low density area, select the "LOW" mode and change the adjustment value. To adjust the copy density in the high density area, select the "HIGH" mode and change the adjustment value.

When the adjustment value is increased, the copy density is increased. When the adjustment value is decreased, the copy density is decreased.

	Item/Display	Content		Setting range	Default value
Α	AUTO1	Auto 1	LOW	1 - 99	50
			HIGH	1 - 99	50
В	AUTO2	Auto 2	LOW	1 - 99	50
			HIGH	1 - 99	50
С	TEXT	Text	LOW	1 - 99	50
			HIGH	1 - 99	50
D	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO	Photo	HIGH	1 - 99	50
Е	TEXT/PHOTO	Text/	LOW	1 - 99	50
		Photograph	HIGH	1 - 99	50
F	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
			HIGH	1 - 99	50
G	PHOTOGRAPH	Photograph	LOW	1 - 99	50
			HIGH	1 - 99	50
Н	MAP	Мар	LOW	1 - 99	50
			HIGH	1 - 99	50

	Item/Display	Content		Setting range	Default value
- 1	TEXT (COPY TO	Text (Copy	LOW	1 - 99	50
	COPY)	document)	HIGH	1 - 99	50
J	TEXT/PRINTED	Text/Printed	LOW	1 - 99	50
	PHOTO (COPY TO COPY)	Photo (Copy document)	HIGH	1 - 99	50
K	PRINTED PHOTO	Printed Photo	LOW	1 - 99	50
	(COPY TO COPY)	(Copy document)	HIGH	1 - 99	50
L	LIGHT	Light document	LOW	1 - 99	50
			HIGH	1 - 99	50

46-4	
Purpose	Adjustment (Color scanner mode)
Function (Purpose)	Used to adjust the density in the image send mode.
Section	

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
  - \* When the  $\triangle$   $\triangledown$  key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 3) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density is increased, and vice versa.

# 18cpm/20cpm/23cpm/31cpm(G) machine

Mode		Item/Display	Content	Setting range	Default value
LOW	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	D	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Е	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50
HIGH	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	D	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Е	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50

# 26cpm/36cpm/31cpm(A) machine

Mode		Item/Display	Content	Setting range	Default value
LOW	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	D	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Е	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50
	Ι	RIP	-	1 - 99	50
HIGH	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	O	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	ם	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Е	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50
	Н	RIP	_	1 - 99	50

46-5	
Purpose	Adjustment (Monochrome scanner mode)
Function (Purpose)	Used to adjust the density in the image send mode.
Section	

#### Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
  - \* When the △ ▽ key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 3) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density is increased, and vice versa.

# 18cpm/20cpm/23cpm/31cpm(G) machine

Mode		Item/Display	Content	Setting range	Default value
LOW	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	D	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Ε	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50
HIGH	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	D	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Е	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50

# 26cpm/36cpm/31cpm(A) machine

Mode		Item/Display	Content	Setting range	Default value
LOW	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	ם	TEXT/PHOTO	Text/Photograph	1 - 99	50
	Е	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50
	Τ	RIP	-	1 - 99	50
HIGH	Α	AUTO	Auto	1 - 99	50
	В	TEXT	Text	1 - 99	50
	С	TEXT/PRINTED PHOTO	Text/Printed Photo	1 - 99	50
	ם	TEXT/PHOTO	Text/Photograph	1 - 99	50
	ш	PRINTED PHOTO	Printed Photo	1 - 99	50
	F	PHOTOGRAPH	Photograph	1 - 99	50
	G	MAP	Мар	1 - 99	50
	Н	RIP	_	1 - 99	50

46-8	
Purpose	Adjustment (Color scanner mode)
Function (Purpose)	,
	balance RGB.
Section	

- Select an adjustment target with [R] [G] [B] keys on the touch panel.
- Select an adjustment target item with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key. (The set value is saved.)

The color balance can be adjusted separately for the low density area and the high density area.

When the adjustment value is increased, the image density of the target color is increased, and vice versa.

	Item/Display	Content	Default value
Α	LOW DENSITY POINT	Low density correction amount	50
В	HIGH DENSITY POINT	High density correction amount	50

46-9	
Purpose	Adjustment (RSPF mode)
Function (Purpose)	Used to adjust the scan image density.
Section	

## Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
  - \* When the △ ▽ key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 3) Press [OK] key. (The set value is saved.)

This adjustment result affects the image send mode, the copy mode, and the fax mode.

When the adjustment value is increased, the image density is increased, and vice versa.

#### [RSPF]

I	Item/Display	Content	Setting range	Default value
Α	COPY : LOW	RSPF copy mode exposure	1 - 99	48
		adjustment (Low density side)		
В	SCAN: LOW	RSPF scanner mode exposure	1 - 99	48
		adjustment (Low density side)		
С	FAX : LOW	RSPF FAX mode exposure	1 - 99	48
		adjustment (Low density side)		
D	COPY: HIGH	RSPF copy mode exposure	1 - 99	53
		adjustment (High density side)		
Е	SCAN : HIGH	RSPF scanner mode exposure	1 - 99	53
		adjustment (Low density side)		
F	FAX : HIGH	RSPF FAX mode exposure	1 - 99	53
		adjustment (high density)		

46-10	
Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance and the gamma (for each color copy mode).
Section	

#### Operation/Procedure

- 1) Select an adjustment target mode with the touch panel key.
- Select an adjustment target color with [K][C][M][Y] keys on the touch panel.
- Select an adjustment target item with scroll key on the touch panel.
- 4) Enter the set value with 10-key.
  - \* When the △ ▽ key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 5) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density is increased, and vice versa.

TEXT	Text
TEXT/PRT PHOTO	Text/Printed Photo
PRINTED PHOTO	Printed Photo
PHOTO + TEXT/PHOTO	Photograph + Text/Printed Photo
MAP	Мар
LIGHT	Light document
COPY ORG	Copy document

	Item/Display	Density level (Point)	Setting range	Default value
Α	POINT1	Point 1	1 - 999	500
В	POINT2	Point 2	1 - 999	500
С	POINT3	Point 3	1 - 999	500
D	POINT4	Point 4	1 - 999	500
Е	POINT5	Point 5	1 - 999	500
F	POINT6	Point 6	1 - 999	500
G	POINT7	Point 7	1 - 999	500
Н	POINT8	Point 8	1 - 999	500
I	POINT9	Point 9	1 - 999	500
J	POINT10	Point 10	1 - 999	500
K	POINT11	Point 11	1 - 999	500
L	POINT12	Point 12	1 - 999	500
M	POINT13	Point 13	1 - 999	500
Ν	POINT14	Point 14	1 - 999	500
0	POINT15	Point 15	1 - 999	500
Р	POINT16	Point 16	1 - 999	500
Q	POINT17	Point 17	1 - 999	500

46-16	
Purpose	Adjustment
Function (Purpose)	Used to adjust the monochrome copy density and the gamma (for each monochrome copy mode).
Section	

#### Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
  - \* When the △ ▽ key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 3) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density is increased, and vice versa.

Item/Display		Density level (Point)	Setting range	Default value
Α	POINT1	Point 1	1 - 999	500
В	POINT2	Point 2	1 - 999	500
С	POINT3	Point 3	1 - 999	500
D	POINT4	Point 4	1 - 999	500
Е	POINT5	Point 5	1 - 999	500
F	POINT6	Point 6	1 - 999	500
G	POINT7	Point 7	1 - 999	500
Н	POINT8	Point 8	1 - 999	500
I	POINT9	Point 9	1 - 999	500
J	POINT10	Point 10	1 - 999	500
Κ	POINT11	Point 11	1 - 999	500
L	POINT12	Point 12	1 - 999	500
М	POINT13	Point 13	1 - 999	500
Ν	POINT14	Point 14	1 - 999	500
0	POINT15	Point 15	1 - 999	500
Р	POINT16	Point 16	1 - 999	500
Q	POINT17	Point 17	1 - 999	500

46-19				
Purpose	Setting			
Function (Purpose)	Used to set the operating conditions for the density scanning (exposure) of monochrome auto copy mode documents.			
Section				

Select an item to be set with touch panel.

When an item is selected, it is highlighted and the setting change is saved.

Item/Display	Content	Set value	Default value
AE_MODE	Auto exposure mode	MODE1, MODE2	MODE1
AE_STOP_COPY	Auto B/W exposure Stop (for copy)	REALTIME/ STOP/ PRESCAN	STOP
AE_STOP_FAX	Auto B/W exposure Stop (for FAX)	ON/OFF	ON
AE_STOP_SCAN	Auto B/W exposure Stop (for scanner)	REALTIME/ STOP/ PRESCAN	STOP
AE_FILTER	Auto exposure filter setting	SOFT NORMAL SHARP	NORMAL
AE_WIDTH	AE exposure width	FULL/PART	FULL

# Note

MODE 1	High gamma (high contrast images)
MODE 2	Normal gamma
STOP	The image density in 3 - 7mm area at the lead edge is scanned, and the output image density is determined according to the scanned density. (The output image density is even for all the surface.)
REALTIME	The densities of the document width are scanned sequentially, and the output image density is determined according to the density in each area of document. (The output image density may not be even for all the surface.)
PRESCAN	The densities of the all surface of document are scanned sequentially, and the output image density is determined according to the average of the scanned densities. (The output image density is even for all the surface.)
AE WIDTH FULL	The document density scan area in the monochrome auto mode is 3 - 7mm at the document lead edge x the document width. This is not related to the PRESCAN mode.

AE WIDTH	The document density scan area in the monochrome
PART	auto mode is 3 - 7mm at the document lead edge x
	100mm width. This is not related to the PRESCAN mode.

46-21					
Purpose	Adjus	tment			
Function (Purpose)	Copy adjust		balance	adjustment	(Manual
Section					

# Operation/Procedure

- Select an adjustment target color with [K][C][M][Y] keys on the touch panel.
- Select an adjustment target item with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
  - \* When the △ ▽ key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 4) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density is increased, and vice versa.

When [EXECUTE] key is pressed, the check pattern in printed in the color balance and density corresponding to the adjustment value.

	Item/Display	Density level (Point)	Setting range	Default value
Α	POINT1	Point 1	1 - 999	500
В	POINT2	Point 2	1 - 999	500
С	POINT3	Point 3	1 - 999	500
D	POINT4	Point 4	1 - 999	500
Е	POINT5	Point 5	1 - 999	500
F	POINT6	Point 6	1 - 999	500
G	POINT7	Point 7	1 - 999	500
Н	POINT8	Point 8	1 - 999	500
ı	POINT9	Point 9	1 - 999	500
J	POINT10	Point 10	1 - 999	500
K	POINT11	Point 11	1 - 999	500
L	POINT12	Point 12	1 - 999	500
М	POINT13	Point 13	1 - 999	500
N	POINT14	Point 14	1 - 999	500
0	POINT15	Point 15	1 - 999	500
Р	POINT16	Point 16	1 - 999	500
Q	POINT17	Point 17	1 - 999	500

46-23	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the density correction of copy high density section (High density tone gap supported).

# Operation/Procedure

Section

1) Enter the set value with 10-key.

ĺ	0	Enable
	1	Inhibit

2) Press [OK] key. (The set value is saved.)

	Item/Display	Content		Setting range	Default value
Α	CMY (0: ENABLE 1: DISABLE)	0	CMY engine highest density correction mode: Enable	0 - 1	0
		1	CMY engine highest density correction mode: Disable		

	Item/Display		Content		Default value
В	K (0: ENABLE 1: DISABLE)	0 K engine highest density correction mode: Enable		0 - 1	1
		1	K engine highest density correction mode: Disable		
С	CYAN MAX TARGET	CYA	Scanner target value for CYAN maximum density correction		500
D	MAGENTA MAX TARGET	MAC	Scanner target value for MAGENTA maximum density correction		500
E	YELLOW MAX TARGET	YEL	Scanner target value for YELLOW maximum density correction		500
F	BLACK MAX TARGET	BLA	nner target value for CK maximum density ection	0 - 999	500

\* When tone gap is generated in the high density area, set items A and B to "0".

The density of high density part decreases. However, the tone gap is better.

\* To increase the density in the high density area further, set items A and B to "1".

The tone gap may occur in high density part.

# Important

Do not change the values of items C, D, E, and F. If these values are changed, the density in the high density area is changed.

46-24				
Purpose	Adjustment			
Function (Purpose)	Copy color balance adjustment			
	(Auto adjustment)			
Section				

# Operation/Procedure

1) Press [EXECUTE] key.

The color patch image (adjustment pattern) is printed out.

- Plate the printed adjustment pattern on the document table, select [FACTORY] or [SERVICE] mode.
- 3) Press [EXECUTE] key.

The copy color balance automatic adjustment is performed, then the adjustment result pattern is printed.

4) Press [OK] key.

The halftone correction target registration is processed.

46-25	
Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance. (Sin-
	gle color copy mode)

#### Operation/Procedure

Section

- Select an adjustment target color with [C][M][Y] keys on the touch panel.
- Select an adjustment target item with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density of the target color is increased, and vice versa.

# 18cpm/20cpm/23cpm/31cpm(G) machine

Itom/Diaplay		0-44:	Default value		
	Item/Display	Setting range	C M Y		Υ
Α	RED	0 - 255	0	255	200

Item/Display		Setting range	Default value		
			С	М	Υ
В	GREEN	0 - 255	255	0	255
С	BLUE	0 - 255	255	150	0
D	CYAN	0 - 255	255	0	0
Е	MAGENTA	0 - 255	0	255	0
F	YELLOW	0 - 255	0	0	255

# 26cpm/36cpm/31cpm(A) machine

	Item/Display Setting range		Default value		
	iteiii/Dispiay	Setting range	C	M	Υ
Α	RED	0 - 255	0	255	200
В	GREEN	0 - 255	255	0	255
С	BLUE	0 - 255	255	150	0
D	CYAN	0 - 255	255	0	0
Е	MAGENTA	0 - 255	0	255	0
F	YELLOW	0 - 255	0	0	255
G	ORANGE	0 - 255	0	150	255
Н	NAVY	0 - 255	255	200	0
I	LIGHT GREEN	0 - 255	150	0	150
J	LIGHT BLUE	0 - 255	150	20	0
K	AQUA MARINE	0 - 255	170	0	50
L	PURPLE	0 - 255	128	255	0
M	PINK	0 - 255	0	150	20
Ν	YELLOW GREEN	0 - 255	128	0	255
0	BEIGE	0 - 255	0	50	170

46-26					
Purpose	Adjustment				
Function (Purpose)	Used to reset the single color mode color balance set value to the default.				
Section					

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The color balance value of the single color mode is reset to the default value.

46-27					
Purpose	Adjustment/Setup				
Function (Purpose)	Used to adjust the gamma/density of copy images, texts, and line image edges.				
Section					

#### Operation/Procedure

- Select a target item of setting with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

Item/Display (Copy mode)		Content	Setting range	Default value
Α	BLACK TEXT (SLOPE)	Black character edge gamma skew adjustment	1 - 99	50
В	BLACK TEXT (INTERCEPT)	Black character edge density adjustment	1 - 99	50
С	COLOR TEXT (SLOPE)	Color character edge gamma skew adjustment	1 - 99	50
D	COLOR TEXT (INTERCEPT)	Color character edge density adjustment	1 - 99	50
Е	ED TEXT (SLOPE)	Text/Map mode gamma adjustment (Text/Map mode)	1 - 99	50
F	ED TEXT (INTERCEPT)	Text/Map mode density adjustment (Text/Map mode)	1 - 99	50

When the adjustment values of items A, C, and E are changed, the gamma of text and line edge image density section is changed.

When the adjustment value is increased, the image contrast of character edge and line edge is increased. When the adjustment value is decreased, the image contrast of character and line edge is decreased.

When the adjustment values of items B, D, and F are increased, the image density of text and line edge section is decreased, and vice versa.

# Operation/Procedure

- Refer to the following table, and enter the set value corresponding to the resolution mode with 10-key.
- 2) Press [OK] key. (The set value is saved.)

	Item/Display	Content	Content			Default value
Α	SCAN	Scan resolution	Mode1	0 - 1	0	0
	RESOLUTION	selection	Mode2		1	
	SW	(COPY: COLOR)				

		Resolution in t	he sub scanning	direction (DPI)	
Mode	Scan	25-99%	100-200%	201-400% [Magnification	
Wiode	mode	[Magnification	[Magnification		
		ratio]	ratio]	ratio]	
Mode1	ОС	600	600	1200	
	RSPF	600	600	1200	

46-36	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the colors in the 2-color copy mode.
Section	

## Operation/Procedure

- Select a target adjustment item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

By changing the density level of each color, the color adjustment in the 2-color copy mode can be performed.

		Resolution in the sub scanning direction (DPI)				
Mode	Scan mode	25-99% [Magnification ratio]	100-200% [Magnification ratio]	201-400% [Magnification ratio]		
Mode2	ОС	300	600	1200		
	RSPF	400	600	1200		

46-32	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the document background density reproducibility in the monochrome auto copy mode.
Section	

#### Operation/Procedure

- Select a target item of setting with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, reproducibility of the background and the low density image is increased. When the adjustment value is decreased, reproducibility of the background and the low density image is decreased.

# [RSPF]

	Item/Display Content		Setting range	Default value
Α	COPY : OC	OPY : OC Copy mode (for OC)		196
В	COPY: RSPF	Copy mode (for RSPF)	1 - 250	196
С	SCAN : OC	Scanner mode (for OC)	1 - 250	196
D	SCAN : RSPF	Scanner mode (for RSPF)	1 - 250	196
Е	FAX : OC	FAX mode (for OC)	1 - 250	196
F	FAX: RSPF	FAX mode (for RSPF)	1 - 250	196

# 18cpm/20cpm/23cpm/31cpm(G) machine

	tem/Display	em/Display Content S		Default value			
	tem/Display	Content	range	С	М	Υ	
Α	RED	R output color	0 - 255	0	255	200	
В	GREEN	G output color	0 - 255	255	0	255	
С	BLUE	B output color	0 - 255	255	150	0	
D	CYAN	C output color	0 - 255	255	0	0	
Е	MAGENTA	M output color	0 - 255	0	255	0	
F	YELLOW	Y output color	0 - 255	0	0	255	

# 26cpm/36cpm/31cpm(A) machine

14/	Item/Display		Contont	Setting	Default value			Default
item/L	Jispi	ay	Content	range	С	М	Υ	value
OUTCOLOR	Α	RED	R output color	0 - 255	0	255	200	-
(Output color coefficient)	В	GREEN	G output color	0 - 255	255	0	255	-
	С	BLUE	B output color	0 - 255	255	150	0	-
	D	CYAN	C output color	0 - 255	255	0	0	-
	Е	MAGENTA	M output color	0 - 255	0	255	0	-
	F	YELLOW	Y output color	0 - 255	0	0	255	-
	G	ORANGE	O output color	0 - 255	0	150	255	-
	Н	NAVY	N output color	0 - 255	255	200	0	-
	Ι	LIGHT GREEN	LG output color	0 - 255	150	0	150	-
	J	LIGHT BLUE	LB output color	0 - 255	150	20	0	-
	K	AQUA MARINE	AM output color	0 - 255	170	0	50	-
	L	PURPLE	PU output color	0 - 255	128	255	0	-
	М	PINK	P output color	0 - 255	0	150	20	-
	Ν	YELLOW GREEN	YG output color	0 - 255	128	0	255	-
	0	BEIGE	BE output color	0 - 255	0	50	170	-

Item/Display			Content	Setting	Default value			Default
		ау	Content	range	С	M	Υ	value
CHROMA	Α	RED / BLACK	Red extraction mode	0 - 6	-	-	-	3
(Chroma adjustment)			(The red recognition area is adjusted.)					
	В	KS:CHROMATIC	Chromatic color extraction mode	0 - 6		-	-	3
			(The chromatic color recognition area is adjusted.)					

46-37	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the reproduction capability
	of monochrome mode color.
Section	

- 1) Select a target item with scroll keys on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [EXECUTE] key.
- 4) Press [YES] key.

This is to adjust the reproduction capability of red and yellow images when copying color documents with red and yellow images in the monochrome mode.

#### 18cpm/20cpm/23cpm/31cpm(G) machine

Applied to the copy mode only.

Ite	em/Display	Content	Setting range	Default value	
Α	R-Ratio	Gray making setting (R)	0 - 1000	63	
В	G-Ratio	Gray making setting (G)	0 - 1000	877	

#### 26cpm/36cpm/31cpm(A) machine

An individual adjustment is available in each of the copy mode and the printer mode.

lt	em/Display	Content	Setting range	Default value
Α	R-Ratio	Gray making setting (R)	0 - 1000	63
В	G-Ratio	Gray making setting (G)	0 - 1000	877
С	R-Ratio RIP	Print gray making setting (R)	0 - 1000	299
D	G-Ratio RIP	Print gray making setting (G)	0 - 1000	587

B-Ratio	Gray making setting (B) (1000-R-Ratio - G-Ratio)
B-Ratio RIP	Print gray making setting (B) (1000-R-Ratio RIP - G-Ratio RIP)

\* B-Ratio: The value of gray making setting (B) is obtained from the formula below.

1000-R-Ratio - G-Ratio

When [DEFAULT] key is pressed, the values are set to the initial values (Default).

When the adjustment value of the adjustment item A is increased, the copy density of red images is decreased. When the adjustment value is decreased, the density is increased.

When the adjustment value of the adjustment item B is increased, the copy density of yellow images is increased. When the adjustment value is decreased, the density in also decreased.

46-38						
Purpose	Adjust	mer	nt/Setup			
Function (Purpose)	Used	to	adjust	the	black	component
	amour	nt in	the colo	r cop	y mode	
Section						

#### Operation/Procedure

- Select the AUTO MODE or the MANUAL MODE with the mode key.
- 2) Select the mode to be adjusted with the scroll key.
- 3) Press the black component amount select key.

This adjusts black ingredient amount in the color copy mode. (except character and line image)

As a result of this adjustment, the gradation of the shade part changes.

Itom	/Display	Select		Default
	y mode)	button	Content	value
MANUAL	TEXT PRT	(-) LUT2	Text print	NORMAL
1117 (1 TO) (L	12/11/11	(-) LUT1	(Manual)	1101111111
		NOMAL	,	
		(+) LUT1		
		(+) LUT2		
	TEXT	(-) LUT2	Text (Manual)	NORMAL
		(-) LUT1	, ,	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	PRINTED	(-) LUT2	Printed photo	NORMAL
	PHOTO	(-) LUT1	(Manual)	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	PHOTO	(-) LUT2	Photograph/Text	NORMAL
		(-) LUT1	photograph	
		NOMAL	(Manual)	
		(+) LUT1		
		(+) LUT2		
	TEXT	(-) LUT2	Text/Photograph	NORMAL
	PHOTO	(-) LUT1	(Manual)	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	MAP	(-) LUT2	Map (Manual)	NORMAL
		(-) LUT1		
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	CP ORG/	(-) LUT2	Copy document/	NORMAL
	TEXT PRT	(-) LUT1	Text printed (Manual)	
		NOMAL	(Manual)	
		(+) LUT1		
	0000/0000/	(+) LUT2	0	NODMA
	COPY ORG/ TEXT	(-) LUT2	Copy document/ Text (Manual)	NORMAL
	IEAI	(-) LUT1	iest (iviariuai)	
		NOMAL		
		(+) LUT1		
		(+) LUT2		

	/Display by mode)	Select button	Content	Default value
MANUAL	COPY ORG/	(-) LUT2	Copy document/	NORMAL
	РНОТО	(-) LUT1	Printed photo	
		NOMAL	(Manual)	
		(+) LUT1		
		(+) LUT2		
	LIGHT	(-) LUT2	Light document	NORMAL
	ORIGINAL	(-) LUT1	(Manual)	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
AUTO	AUTO0	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 0	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	AUTO1	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 1	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	AUTO2	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 2	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	AUTO3	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 3	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	AUTO4	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 4	
		NOMAL		
		(+) LUT1		
		(+) LUT2		
	AUTO5	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 5	
		NOMAL		
		(+) LUT1	_	
	ALITOS	(+) LUT2	Automorali	NORMA
	AUTO6	(-) LUT2	Auto mode	NORMAL
		(-) LUT1	judgment 6	
		NOMAL	_	
		(+) LUT1		
		(+) LUT2		

46-39	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the sharpness of FAX send images.
Section	

- 1) Select a target item with scroll keys on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

Input small numeric value to obtain crispy image. Input large numeric value to decrease moire.

	Item/Display	Content	Setting range	Default value
Α	200 x 100 [DPI] OFF	200 x 100 [DPI] halftone OFF	0 - 2	1
В	200 x 200 [DPI] OFF	200 x 200 [DPI] halftone OFF	0 - 2	1
С	200 x 200 [DPI] ON	200 x 200 [DPI] halftone ON	0 - 2	1

	Item/Display Content		Setting range	Default value
D	200 x 400 [DPI] OFF	200 x 400 [DPI] halftone OFF	0 - 2	1
Е	200 x 400 [DPI] ON	200 x 400 [DPI] halftone ON	0 - 2	1
F	400 x 400 [DPI] OFF	400 x 400[DPI] halftone OFF	0 - 2	1
G	400 x 400 [DPI] ON	400 x 400[DPI] halftone ON	0 - 2	1
Н	600 x 600 [DPI] OFF	600 x 600[DPI] halftone OFF	0 - 2	1
I	600 x 600 [DPI] ON	600 x 600[DPI] halftone ON	0 - 2	1

46-40	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the FAX send image density. (Collective adjustment of all the modes)
Section	

# Operation/Procedure

- 1) Set the document on the document table.
- 2) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key
   When [EXECUTE] key is pressed, the adjustment value is set and the scanned document image is outputted.

Item/Display		Content	Setting range	Default value
Α	EXPOSURE	Used to adjust the FAX send	1 - 99	50
	LEVEL(ALL)	image density. (Collective		
		adjustment of all the modes)		

46-41	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the FAX send image density. (Normal)
Section	

# Operation/Procedure

- 1) Set the document on the document table.
- 2) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key
   When [EXECUTE] key is pressed, the adjustment value is set and the scanned document image is outputted.

Item/Display		Content		Setting range		Default value	
Α	AUTO		Auto		1 - 9	9	50
В	EXPOSURE	1	Exposu	ıre 1	1 - 99		50
С	EXPOSURE	2	Exposu	ıre 2	1 - 9	9	50
D	EXPOSURE	3	Exposu	Exposure 3		9	50
Е	E EXPOSURE4		Exposure 4		1 - 99		50
F	EXPOSURE	SURE5 Exp		Exposure 5		9	50
G	EXECUTE	AUTO	Print	Auto	1 - 6	1	1
	MODE	EXP1	mode	Exposure 1		2	(AUTO)
		EXP2		Exposure 2		3	
		EXP3		Exposure 3		4	
		EXP4		Exposure 4		5	
		EXP5		Exposure 5		6	

To check the adjustment density level of items A - F, set the document and set the setting value of item G according to items A - F, and press [EXECUTE] key.

46-42	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the FAX send image density.
	(Fine)
Section	

- 1) Set the document on the document table.
- 2) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key
   When [EXECUTE] key is pressed, the adjustment value is set and the scanned document image is outputted.

Item/Display		(	Content		ing ge	Default value	
Α	AUTO		Fine/Automatic		1 - 99		50
В	EXPOSURE1		Fine/Exposure 1		1 - 99		50
С	EXPOSURE	2	Fine/E	xposure 2	1 - 99		50
D	EXPOSURE	3	Fine/E	xposure 3	1 - 99		50
Е	EXPOSURE	4	Fine/E	xposure 4	1 - 99		50
F	EXPOSURE	5	Fine/E	xposure 5	1 - 99		50
G	AUTO H_TO	NE	Fine/Automatic/ Halftone		1 - 99		50
Н	EXPOSURE	1 H_TONE		Fine/Exposure 1/ Halftone		99	50
I	EXPOSURE	2 H_TONE	1	Fine/Exposure 2/ Halftone		99	50
J	EXPOSURE3 H_TONE		1	Fine/Exposure 3/ Halftone		99	50
K	EXPOSURE4 H_TONE		Fine/E: Halfton	xposure 4/ ne	1 - 99		50
L	EXPOSURE	5 H_TONE	Fine/E: Halftor	xposure 5/ ne	1 -	99	50
М	EXECUTE	AUTO	Print	Fine/Auto	1 -	1	1
	MODE	EXP1	mode	Fine/	12	2	(AUTO)
				Exposure 1			
		EXP2		Fine/		3	
		EV/D0		Exposure 2		_	
		EXP3		Fine/ Exposure 3		4	
		EXP4		Fine/		5	
		LAIT		Exposure 4		٦	
		EXP5	1	Fine/		6	
				Exposure 5			
		AUTO		Fine/		7	
		H_TONE		Automatic/			
				halftone			
		EXP1		Fine/		8	
		H_TONE		Exposure 1/			
		EXP2	1	Halftone Fine/		9	
		H_TONE		Exposure 2/		9	
		11_10112		Halftone			
		EXP3		Fine/		10	
		H_TONE		Exposure 3/			
			]	Halftone			
		EXP4		Fine/		11	
		H_ONE		Exposure 4/ Halftone			
		EXP5		Fine/		12	
		H_TONE		Exposure 5/			
				Halftone			

To check the adjustment density level of items A - L, set the document and set the setting value of item M according to items A - L, and press [EXECUTE] key.

46-43	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the FAX send image density. (Super Fine)
Section	(caper i iiie)

#### Operation/Procedure

- 1) Set the document on the document table.
- 2) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key
   When [EXECUTE] key is pressed, the adjustment value is set and the scanned document image is outputted.

Item/Display		Content		Setting range		Default value	
Α	A AUTO		Super Fine/Auto		1 - 99		50
В	EXPOSURE1		Super Fine/		1 - 99		50
			Exposure 1				
С	EXPOSURE	2	Super Fine/		1 - 99		50
			Exposure 2				
D	EXPOSURE	:3	Super F		1 - 99		50
E	EXPOSURE	- 4	Exposure 3		1	99	50
=	EXPOSURE	:4	Super Fine/ Exposure 4		'-	99	50
F	EXPOSURE	5	Super Fine/		1 -	99	50
			Exposu				
G	AUTO H_TO	ONE	Super F	ine/	1 -	99	50
			Auto/Ha	alftone			
Н	EXPOSURE	1 H_TONE	Super F		1 -	99	50
<u> </u>	EVDC 5: ::=			re 1/Halftone			
I	EXPOSURE	2 H_TONE	Super F		1 - 99		50
J	EXDUSTIBLE	3 H TONE	Super F	re 2/Halftone	1	90	50
٦	EXPOSURE3 H_TONE			re 3/Halftone	1 - 99		30
К	EXPOSURE	4 H TONE	Super F		1 - 99		50
L				re 4/Halftone	L		
L	EXPOSURE	5 H_TONE	Super F	ine/	1 -	99	50
		,	Exposu	re 5/Halftone		,	
М	EXECUTE	AUTO	Print	Super Fine/	1-	1	1
	MODE	E)/D/	mode	Auto	12		(AUTO)
		EXP1		Super Fine/ Exposure 1		2	
		EXP2		Super Fine/		3	
		L/ Z		Exposure 2		ľ	
		EXP3		Super Fine/		4	
				Exposure 3			
		EXP4		Super Fine/		5	
				Exposure 4			
		EXP5		Super Fine/		6	
		AUTO		Exposure 5 Super Fine/		7	
		H_TONE		Auto/		l '	
				Halftone			
		EXP1		Super Fine/		8	
		H_TONE		Exposure 1/			
		EVE		Halftone		_	
		EXP2		Super Fine/ Exposure 2/		9	
		H_TONE		Halftone			
		EXP3		Super Fine/		10	
		H_TONE		Exposure 3/		-	
				Halftone			
		EXP4		Super Fine/		11	
		H_TONE		Exposure 4/			
		EXP5		Halftone Super Fine/		12	
		H_TONE		Exposure 5/		12	
				Halftone			
	L	L	·				l

To check the adjustment density level of items A - L, set the document and set the setting value of item M according to items A - L, and press <code>[EXECUTE]</code> key.

46-44							
Purpose	Adjustment/Setup						
Function (Purpose)	Used to adjust the FAX send image density. (Ultra fine)						
Section							

- 1) Set the document on the document table.
- 2) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key
   When [EXECUTE] key is pressed, the adjustment value is set and the scanned document image is outputted.

					Cat	4:	Defecult
	Item/Display		Content		Setting range		Default value
Α	AUTO		Ultra Fi	ne/Auto	1 -	99	50
В	EXPOSURE1		Ultra Fine/Exposure 1		1 - 99		50
С	EXPOSURE2		Ultra Fi	ne/Exposure 2	1 -	99	50
D	EXPOSURE3		Ultra Fine/Exposure 3		1 - 99		50
Е	EXPOSURE	4	Ultra Fine/Exposure 4		1 - 99		50
F	EXPOSURE	5	Ultra Fine/Exposure 5		1 - 99		50
G	AUTO H TO	ONE	Ultra Fi	Jltra Fine/Auto/		99	50
	_		Halfton	е			
Н	EXPOSURI	1	Ultra Fi	Ultra Fine/		99	50
	H_TONE		Exposu	ire 1/Halftone			
1	EXPOSURE	2	Ultra Fi	ne/	1 -	99	50
	H_TONE		Exposu	ire 2/Halftone			
J	EXPOSURE	3	Ultra Fi	ne/	1 -	99	50
	H_TONE		Exposu	ire 3/Halftone			
K	EXPOSURE	4	Ultra Fi	ne/	1 -	99	50
	H_TONE			ire 4/Halftone			
L	EXPOSURE	5	Ultra Fi		1 -	99	50
	H_TONE	•		ire 5/Halftone			
М	EXECUTE	AUTO	Print	Ultra Fine/	1 -	1	1
	MODE		mode	Auto	12		(AUTO)
		EXP1		Ultra Fine/		2	
				Exposure 1			
		EXP2		Ultra Fine/		3	
		E)/D0		Exposure 2			
		EXP3		Ultra Fine/		4	
		EVD4		Exposure 3			
		EXP4		Ultra Fine/		5	
		EXP5	_	Exposure 4 Ultra Fine/		6	
		EXPO		Exposure 5		О	
		AUTO		Ultra Fine/		7	
		H TONE		Auto/		,	
		11_1011		Halftone			
		EXP1	-	Ultra Fine/		8	
		H_TONE		Exposure 1/			
				Halftone			
		EXP2		Ultra Fine/		9	
		H_TONE		Exposure 2/			
				Halftone			
		EXP3		Ultra Fine/		10	
		H_TONE		Exposure 3/			
				Halftone			
		EXP4		Ultra Fine/		11	
		H_TONE		Exposure 4/			
		EVD=	4	Halftone	-	40	Ì
		EXP5		Ultra Fine/		12	
		H_TONE		Exposure 5/ Halftone			
		1	1	1 Idilloile			1

To check the adjustment density level of items A - L, set the document and set the setting value of item M according to items A - L, and press <code>[EXECUTE]</code> key.

46-45	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the FAX send image density. (600dpi).
Section	

#### Operation/Procedure

- 1) Set the document on the document table.
- 2) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key
   When [EXECUTE] key is pressed, the adjustment value is set and the scanned document image is outputted.

Item/Display		Content			ting	Default	
				range		value	
Α	AUTO		600dpi/Auto 1		1 - 99		50
В	EXPOSURE	1	600dpi	Exposure 1	1 - 99		50
С	EXPOSURE	2	600dpi	Exposure 2	1 - 99		50
D	EXPOSURE	3	600dpi	Exposure 3	1 - 99		50
Ε	EXPOSURE	4	600dpi	Exposure 4	1 -	99	50
F	EXPOSURE	5	600dpi/	Exposure 5	1 - 99		50
G	AUTO H_TO	NE	600dpi/	600dpi/Auto/		99	50
			Halftone 1				
Н	EXPOSURE	1 H_TONE	600dpi	Exposure 1/	1 -	99	50
			Halfton	e			
1	EXPOSURE	2 H_TONE	600dpi	Exposure 2/	1 - 99		50
			Halfton	e			
J	EXPOSURE	3 H_TONE	600dpi	600dpi/Exposure 3/ Halftone		99	50
K	EXPOSURE	EXPOSURE4 H_TONE		Exposure 4/	1 - 99		50
			Halfton				
Г	EXPOSURE	5 H_TONE		Exposure 5/	1 -	99	50
				Halftone			
М	EXECUTE	AUTO	Print	600dpi/	1 -	1	1
	MODE		mode	Auto	12		(AUTO
		EXP1		600dpi/		2	
				Exposure 1			
		EXP2		600dpi/		3	
				Exposure 2			
		EXP3		600dpi/		4	
				Exposure 3			
		EXP4		600dpi/		5	
				Exposure 4			
		EXP5		600dpi/		6	
			1	Exposure 5		<u> </u>	
		AUTO		600dpi/		7	
		H_TONE		Auto/			
		E)(D)	4	Halftone		<u> </u>	
		EXP1		600dpi/		8	
		H_TONE		Exposure			
		EVDO	-	1/Halftone		<u> </u>	
		EXP2		600dpi/		9	
		H_TONE		Exposure 2/Halffone			
		EVD2	-	2/Halftone		10	-
		EXP3 H_TONE		600dpi/ Exposure		10	
		I I I I I I I I		3/Halftone			
		EXP4	-	600dpi/		11	
		H TONE		Exposure		''	
		I I TOINE		4/Halftone			
		EXP5	1	600dpi/		12	
		H_TONE		Exposure		12	
	•						

To check the adjustment density level of items A - L, set the document and set the setting value of item M according to items A - L, and press [EXECUTE] key.

46-46				
Purpose	Adjustn	nent/Set	ир	
Function (Purpose)	Used to adjust the FAX send image density.			
	(RGB	RIP)	(26cpm/36cpm/31cpm(A)	
	machine	e)		

Section

### Operation/Procedure

- 1) Select a target mode for adjustment.
- 2) Set the document on the document table.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key.

When the set value is increased, the density becomes higher. When the set value is decreased, the density becomes lower.

	Item/Display	Content	Setting range	Default value
Α	STANDARD RIP	For Normal/ Halftone OFF mode	1 - 99	50
В	FINE RIP	For Fine/Halftone OFF mode	1 - 99	50
С	FINE RIP H_TONE	For Fine/Halftone ON mode	1 - 99	50
D	SUPER FINE RIP	For Super Fine/ Halftone OFF mode	1 - 99	50
Е	SUPER FINE RIP H_TONE	For Super Fine/ Halftone ON mode	1 - 99	50
F	ULTRA FINE RIP	For Ultra fine/ Halftone OFF mode	1 - 99	50
G	ULTRA FINE RIP H_TONE	For Ultra fine/ Halftone ON mode	1 - 99	50
Н	600DPI RIP	For 600dpi/ Halftone OFF mode	1 - 99	50
I	600DPI RIP H_TONE	For 600dpi/ Halftone ON mode	1 - 99	50

46-47	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the compression rate of copy and scan images (JPEG).
Section	

### Operation/Procedure

- 1) Select a target item with scroll keys on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value is saved.

### 18cpm/20cpm/23cpm/31cpm(G) machine

Operation mode		Item/Di	splay	Content	Setting range	Default value
FILLING (COLOR)	Α	COPY (C)	LOW	Low compres-	0	0 (LOW)
(COPY				sion (Color)		
(COLOR			MIDDLE	Medium	1	
mode))*1				compres-		
				sion (Color)		
			HIGH	High	2	
				compres-		
FILLING	В	COPY	LOW	sion (Color) Low	0	0 (LOW)
(GRAY)	Ь	(G)	LOW	compres-	0	U (LOW)
(COPY		(0)		sion (Gray)		
(Mono-			MIDDLE	Medium	1	
chrome			IVIIDBLE	compres-		
halftone				sion (Gray)		
mode))*1			HIGH	High	2	
				compres-		
				sion (Gray)		
PUSH	С	SCAN	MIDDLE	Medium	0	1
SCAN		(C) *1	1	compres-		(MIDDLE
(COLOR)				sion mode 1		2)
(Scanner				Low		
(Color				compres-		
mode))				sion		
			MIDDLE	Medium	1	
			2	compres- sion mode 2		
				Medium		
				compres-		
				sion		
			MIDDLE	Medium	2	
			3	compres-		
				sion mode 3		
				High		
				compres-		
DUCU	_	COAN	MIDDLE	sion	0	
PUSH SCAN	D	SCAN (G) *2	MIDDLE 1	Medium compres-	0	1 (MIDDLE
(GRAY)		(6) -	<b>'</b>	sion mode 1		2)
(Scanner				Low		
(Mono-				compres-		
chrome				sion		
halftone			MIDDLE	Medium	1	
mode))			2	compres-		
				sion mode 2		
				Medium		
				compres-		
			MIDD: 5	sion	_	
			MIDDLE 3	Medium	2	
			٦	compres- sion mode 3		
				High		
				compres-		
				sion		

- \*1: 20cpm machine: Disable without HDD.
- \*2: Setting of compression rate for images when the image compression rate is set to "Medium" in the user mode.

#### 26cpm/36cpm/31cpm(A) machine

26cpm/36c	pm	/31cpm(A	) machine	)		
Operation mode		Item/Dis	play	Content	Setting range	Default value
FILLING (COLOR) Filing	Α	FILLING (C)	LOW	Low compres- sion	0	0 (LOW)
(Color mode)			MIDDLE	(Color)  Medium compression	1	
			HIGH	(Color) High compression (Color)	2	
FILLING (GRAY) Filing (Mono-	В	FILLING (G)	LOW	Low compres- sion (Halftone)	0	0 (LOW)
chrome halftone mode)			MIDDLE	Medium compres- sion (Mono- chrome halftone mode)	1	
			HIGH	High compression (Monochrome halftone mode)	2	
PRINT HOLD (COLOR) Print hold	С	PRINT (C)	LOW	Low compres- sion (Color)	0	0 (LOW)
(Color mode)			MIDDLE	Medium compres- sion (Color)	1	
			HIGH	High compression (Color)	2	
PRINT HOLD (GRAY) Print hold	D	PRINT (G)	LOW	Low compres- sion (Halftone)	0	0 (LOW)
(Mono- chrome halftone mode)			MIDDLE	Medium compres- sion (Mono- chrome halftone mode)	1	
			HIGH	High compression (Monochrome halftone mode)	2	

Operation		Item/Dis	splav	Content	Setting	Default
mode		1			range	value
PUSH SCAN (COLOR) (Scanner color)	E	SCAN (C) *1	MIDDLE 1	Medium compression mode 1 Low compression	0	1 (MIDDLE 2)
			MIDDLE 2	Medium compres- sion mode 2 Medium compres- sion	1	
			MIDDLE 3	Medium compres- sion mode 3 High compres- sion	2	
PUSH SCAN (GRAY) (Scanner mono- chrome halftone	F	SCAN (G) *1	MIDDLE 1	Medium compression mode 1 Low compression	0	1 (MIDDLE 2)
mode)			MIDDLE 2	Medium compres- sion mode 2 Medium compres- sion	1	
			MIDDLE 3	Medium compres- sion mode 3 High compres- sion	2	

<sup>\*1:</sup> Setting of compression rate for images when the image compression rate is set to "Medium" in the user mode.

### Note

When the compression rate is increased, the HDD capacity in the document filing mode is decreased. On the other hand, however, the image quality of some documents may be remarkably reduced.

46-51	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the gamma for the copy mode heavy paper mode and the image process mode.

Section

#### Operation/Procedure

- Select a target adjustment mode with the touch panel key [PAPER/DITHER].
- Select an adjustment target color with [K][C][M][Y] keys on the touch panel.
- Select a target adjustment density level with scroll key on the touch panel.
- 4) Enter the set value with 10-key.
- Press [EXECUTE] key, or [OK] key.
   When [EXECUTE] key is pressed, the self print image is out-

When the image density is insufficient or a background copy is made in heavy paper copy, change this adjustment value to adjust the image density.

Item/Display	Content	Color
HEAVY*1	Copier heavy paper gamma	KCMY
DITH1*1	Black edge	K
DITH2*1	Color edge	KCMY
DITH3	Color error diffusion	KCMY
DITH4	Monochrome error diffusion	K
DITH8*1	Monochrome dither	K

<sup>\*1: 18</sup>cpm/20cpm machine: Disable without HDD.

	Item/Display	Density level (Point)	Setting range	Default value
Α	POINT1	Point 1	1 - 999	500
В	POINT2	Point 2	1 - 999	500
С	POINT3	Point 3	1 - 999	500
D	POINT4	Point 4	1 - 999	500
Е	POINT5	Point 5	1 - 999	500
F	POINT6	Point 6	1 - 999	500
G	POINT7	Point 7	1 - 999	500
Н	POINT8	Point 8	1 - 999	500
ı	POINT9	Point 9	1 - 999	500
J	POINT10	Point 10	1 - 999	500
K	POINT11	Point 11	1 - 999	500
L	POINT12	Point 12	1 - 999	500
M	POINT13	Point 13	1 - 999	500
Ν	POINT14	Point 14	1 - 999	500
0	POINT15	Point 15	1 - 999	500
Р	POINT16	Point 16	1 - 999	500
Q	POINT17	Point 17	1 - 999	500

46-52

Purpose

Adjustment/Setup

Function (Purpose)

Used to set the gamma default for the copy mode heavy paper and the image process mode. (After execution of either SIM46-54 or SIM46-51, the adjustment value is reset to the initial value.)

Section

#### Operation/Procedure

- Select an item to be set to the default with the touch panel key.
   To reset the adjustment values of all the items, select [ALL].
- 2) Press [EXECUTE] key.
- 3) Press [YES] key.

46-54	
Purpose	Adjustment
Function (Purpose)	Used to perform the engine halftone automatic density adjustment (dither).
	matic density adjustinent (dither).

#### Operation/Procedure

Section

1) Press [EXECUTE] key.

The high density process control is started to make 48 patch self print. (A4 (11" x 8.5") or A3 (11" x 17") paper in the paper feed tray is used.)

Place the 48 patch self print on the document table, and press [EXECUTE] key.

Scanning the 48 patch self print is started.

After scanning the 48 patch self print, the 17 patch self print is automatically printed.

3) Press [OK] key.

After completion of the correction amount registration, the screen shifts to the dither selection menu.

4) Select an item (dither) to be adjusted.

### 18cpm/20cpm/23cpm/31cpm(G) machine

HEAVYPAPER*1	Copier/gamma for heavy paper
BLACK EDGE*1	Black edge
COLOR EDGE*1	Color edge
COLOR ED	Color error diffusion
B/W ED	Monochrome error diffusion
B/W 600*1	Monochrome dither 600dpi

<sup>\*1: 18</sup>cpm/20cpm machine: Disable without HDD.

### 26cpm/36cpm/31cpm(A) machine

HEAVYPAPER	Copier/gamma for heavy paper
BLACK EDGE	Black edge
COLOR EDGE	Color edge
COLOR ED	Color error diffusion
B/W ED	Monochrome error diffusion
B/W 600	Monochrome dither 600dpi
WOVEN1	Watermark mode 1
WOVEN2	Watermark mode 2
WOVEN3	Watermark mode 3
WOVEN4	Watermark mode 4

5) Press [EXECUTE] key.

The 48 patch self print is printed.

Place the 48 patch self print on the document table, and press [EXECUTE] key.

Scanning the 48 patch self print is started.

After scanning the patch, the screen automatically shifts to the dither selection menu.

7) After completion of the adjustment of all the density adjustment items (dither), press [OK] key.

46-55	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the drop out color in the image send mode (monochrome manual text mode). (26cpm/36cpm/31cpm(A) machine)
Section	

In the image send mode (monochrome manual text mode), the range where color images are reproduced as monochrome images is adjusted.

 Enter the adjustment value with 10-key and press [OK] key.
 When the adjustment value is increased, colors dropout becomes easy to narrow the reproduction range. When the adjustment value is decreased, color dropout becomes difficult to widen the reproduction range.

Item/Display		Content	Setting range	Default value
Α	A CHROMA Dropout color range adjustment		0 - 6	3

Scan the document in the image send mode (monochrome manual text mode), and check the adjustment result.

46-58	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the copy mode pseudo resolution. (Smoothing process)
Section	
0 " "	

### Operation/Procedure

- Select an item (mode) to be set with the button and the scroll key.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

1(ON): 9600 (equivalent) x 600 dpi

0 (OFF): 600 x 600 dpi

The setting is reflected only the image edge area.

Mode	Item/Display		Content	Setti	•	Default
			(copy mode)	rang	ge	value
COLOR	Α	AUTO	Auto	OFF	0	0 (OFF)
				ON	1	
	В	TEXT	Text	OFF	0	1 (ON)
				ON	1	
	С	TEXT PRT	Text print	OFF	0	0 (OFF)
				ON	1	
	D	PRINTED	Printed Photo	OFF	0	0 (OFF)
		PHOTO		ON	1	
	Е	TEXT PHOTO	Text	OFF	0	0 (OFF)
			photograph	ON	1	
	F	PHOTO	Photograph	OFF	0	0 (OFF)
				ON	1	
	G	MAP	Мар	OFF	0	1 (ON)
				ON	1	
	Н	LIGHT	Light	OFF	0	0 (OFF)
			document	ON	1	
	I	CPY TO CPY/	Text (copy	OFF	0	1 (ON)
		TEXT	document)	ON	1	
	J	CPY TO CPY/	Text print	OFF	0	0 (OFF)
		TXT PRT	(сору	ON	1	
			document)			
	K	CPY TO CPY/	Printed Photo	OFF	0	0 (OFF)
		PHOTO	(сору	ON	1	
			document)			

Mode		Item/Display	Content (copy mode)	Setti rang	•	Default value
MONO	Α	AUTO	Auto	OFF	0	0 (OFF)
				ON	1	
	В	TEXT	Text	OFF	0	1 (ON)
				ON	1	
	С	TEXT PRT	Text print	OFF	0	0 (OFF)
				ON	1	
	D	PRINTED	Printed Photo	OFF	0	0 (OFF)
		PHOTO		ON	1	
	Е	TEXT PHOTO	Text	OFF	0	0 (OFF)
			photograph	ON	1	
	F	PHOTO	Photograph	OFF	0	0 (OFF)
				ON	1	
	G	MAP	Мар	OFF	0	1 (ON)
				ON	1	
	Н	LIGHT	Light	OFF	0	0 (OFF)
			document	ON	1	
	- 1	CPY TO CPY/	Text (copy	OFF	0	1 (ON)
		TEXT	document)	ON	1	
	J	CPY TO CPY/	Text print	OFF	0	0 (OFF)
		TXT PRT	(copy document)	ON	1	
	K	CPY TO CPY/	Printed Photo	OFF	0	0 (OFF)
		РНОТО	(copy document)	ON	1	

46-59	
Purpose	Adjustment/Setup
Function (Purpose)	Used to perform the copy mode pseudo resolution image process adjustment.
Section	

#### Operation/Procedure

- Select the MAIN (main scanning direction) or the SUB (sub scanning direction) button.
- Press the button of the adjustment value of the target copy mode.



This adjustment is valid when SIM46-58 Pseudo resolution setting is set to ON.

The thickness of images in the section processed by smoothing is changed.

Positive: The image in the section processed by smoothing becomes thicker.

Negative: The image in the section processed by smoothing becomes thinner.

Scanning direction	Item (copy mode)	Adjustment button	Content	Default value	NOTE	
MAIN	COLOR COPY K	(-)2	Color copy For BLACK	0	Main scanning direction smoothing	
		(-)1			fine adjustment	
		0			Negative (-) direction: The smoothing section becomes	
		(+)1				
		(+)2			thinner.	
	COLOR COPY C	(-)2	Color copy For CYAN	0	Positive (+) direction: The	
	COLOR COL 1 C	(-)1	- Color copy i or CTAIN	U	smoothing section becomes	
		0			thicker.	
			_			
		(+)1				
		(+)2		_		
	COLOR COPY M	(-)2	Color copy For MAGENTA	0		
		(-)1				
		0				
		(+)1				
		(+)2				
	COLOR COPY Y	(-)2	Color copy For YELLOW	0	1	
		(-)1				
		0				
		(+)1	7			
		(+)2				
	MONO COPY K	(-)2	Monochrome copy For BLACK		0	1
	MONO COFT K	(-)1	Monochionie copy i of BLACK	U		
		0	-			
			_			
		(+)1				
		(+)2				
	COLOR PRINT K	(-)2	Color print For BLACK	0	0	
		(-)1 0				
			<u></u>			
		(+)1				
		(+)2				
	COLOR PRINT C	(-)2	Color print For CYAN	0	1	
		(-)1				
		0				
		(+)1				
		(+)2				
	COLOR PRINT M	(-)2	Color print For MAGENTA	0	†	
	COLORTINIVI	(-)1	- Color print For MAGENTA	0		
		0				
			_			
		(+)1				
		(+)2			4	
	COLOR PRINT Y	(-)2	Color print For YELLOW	0		
		(-)1				
		0				
		(+)1	<u> </u>			
		(+)2				
	MONO PRINT K	(-)2	Monochrome print For BLACK	0		
		(-)1				
		0				
		(+)1				
	1	(1)2	Ⅎ		1	

Scanning direction	Item (copy mode)	Adjustment button	Content	Default value	NOTE	
SUB	COLOR COPY K	(-)2	Color copy For BLACK	0	Sub scanning direction smoothing	
		(-)1			fine adjustment	
		0			Negative (-) direction: The	
		(+)1			smoothing section becomes	
		(+)2			thinner.	
	COLOR COPY C	(-)2	Color copy For CYAN	0	Positive (+) direction: The smoothing section becomes	
		(-)1	7		thicker.	
		0	7		tilicker.	
		(+)1	7			
		(+)2				
	COLOR COPY M	(-)2	Color copy For MAGENTA	0		
		(-)1				
		0				
		(+)1				
		(+)2				
	COLOR COPY Y	(-)2	Color copy For YELLOW	0		
	OOLON OOI 1 1	(-)1	- Color copy i oi i i ELECVV			
		0	-			
		(+)1	-			
		(+)2	+			
	MONO COPY K		Managhrama agay For BLACK	0		
	MONO COPT K	(-)2	Monochrome copy For BLACK	U		
		(-)1 0	_			
		(+)1				
	COLOD DDINT K	(+)2	Out out of the PLACK			
	COLOR PRINT K	(-)2	Color print For BLACK	0	0	
		(-)1	_			
		0	_			
		(+)1	_			
		(+)2				
	COLOR PRINT C	(-)2	Color print For CYAN	0		
		(-)1	1			
		0				
		(+)1				
		(+)2				
	COLOR PRINT M	(-)2	Color print For MAGENTA	0		
		(-)1				
		0				
		(+)1	7			
		(+)2				
	COLOR PRINT Y	(-)2	Color print For YELLOW	0		
		(-)1				
		0				
		(+)1				
		(+)2	1			
	MONO PRINT K	(-)2	Monochrome print For BLACK	0		
		(-)1	1			
		0	1			
		(+)1	1			
		(+)2	4			

46-60	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the sharpness in the color auto copy mode.
Section	

- 1) Select a target item with scroll keys on the touch panel.
- Input numeric value corresponding to sharpness level (filter process mode).
- 3) Press [OK] key.

This is used to adjust the sharpness in the color auto copy mode and the smoothness (roughness) in the dark area.

	Item/Display		Content		Setting range	Default value
Α	SCREEN FILTER LEVEL	Н	Sharpness (filter) adjustment of dot pattern image in auto	Strong emphasis	1	3 (Auto)
		L	copy mode	Soft emphasis	2	
		AUTO		Auto	3	1
В	CPY CL AUTO FILTER	SOFT	Sharpness (filter) adjustment for the automatic copy mode	SOFT	1	2 (CENTER)
	LEVEL	CENTER	(Text, Printed Photo / Printed Photo images)	CENTER	2	
		HIGH		HIGH	3	1
С	CPY PUSH AUTO	SOFT	Sharpness (filter) adjustment for the automatic push scan	SOFT	1	2 (CENTER)
	FILTER LEVEL	CENTER	mode (Text, Printed Photo / Printed Photo images)	CENTER	2	1
		HIGH		HIGH	3	1
D	COLOR COPY : CMY	OFF	Soft filter applying setting to C, M, Y image in color copy	OFF	0	1 (ON)
		ON	mode	ON	1	1
Е	COLOR COPY : K	OFF	Soft filter applying setting to K image in color copy mode	OFF	0	1 (ON)
		ON		ON	1	
F	SINGLE COLOR : CMY	OFF	Soft filter applying setting to C, M, Y image in sigle color	OFF	0	1 (ON)
		ON	copy mode	ON	1	1
G	2 COLOR COPY : CMY	OFF	Setting of YES/NO of applying the soft filter to C/M/Y	OFF	0	1 (ON)
		ON	images of the 2-color copy mode	ON	1	
Н	2 COLOR COPY : K	OFF	Setting of YES/NO of applying the soft filter to K images of	OFF	0	1 (ON)
		ON	the 2-color copy mode	ON	1	
ı	B/W COPY	OFF	Soft filter applying setting in monochrome copy mode	OFF	0	1 (ON)
		ON		ON	1	
J	COLOR PUSH : RGB	OFF	Soft filter applying setting to image in push scan color	OFF	0	1 (ON)
		ON	mode	ON	1	
K	B/W PUSH	OFF	Soft filter applying setting to image in push scan	OFF	0	1 (ON)
		ON	monochrome mode	ON	1	
L	COLOR PRINT: CMY*1	OFF	Setting of ON/OFF of soft filter application to color print C,	OFF	0	0 (OFF)
		ON	M, Y images	ON	1	
М	COLOR PRINT: K*1	OFF	Setting of ON/OFF of soft filter application to color print K	OFF	0	0 (OFF)
		ON	images	ON	1	
Ν	B/W PRINT*1	OFF	Setting of ON/OFF of soft filter application to monochrome	OFF	0	0 (OFF)
		ON	print images	ON	1	

<sup>\*1: 18</sup>cpm/20cpm/23cpm/31cpm(G) machine: Disable

46-61	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the area separation recognition level.

### Section

#### Operation/Procedure

- 1) Select an adjustment mode.
- Select a target adjustment item with scroll key on the touch panel.
- 3) Enter the adjustment value using the 10-key.
- 4) Press [OK] key.



This must be set to the default unless any change is specially required.

When the adjustment value is set to a value greatly different from the default value, image quality trouble may occur for some documents.

Item/Display		Content
COLOR	AUTO	[Color/Gray] Auto
	TPP	[Color/Gray] Manual (Text print)
	COPY(TPP)	[Color/Gray] Copy document (Text print)
MONO	AUTO	[Monochrome] Auto
	TPP	[Monochrome] Manual (Text print)
	COPY(TPP)	[Monochrome] Copy document (Text
		print)

	Item/Display	Content	Setting range	Default value
Α	SEGMENT: SWITCH [TXT ON SCR]	Detection ON/OFF: Text on dot	0 - 1	0
В	SEGMENT: SWITCH [LINE SCR]	Detection ON/OFF: line screen	0 - 1	0
С	SEGMENT: SWITCH [SMALL SCR]	Detection ON/OFF: Dot in a small area	0 - 1	0
D	SEGMENT: SWITCH [HIGH LPI]	Detection ON/OFF: High line number judgment select	0 - 1	0
E	SEGMENT: SWITCH [TXT ON SCR IMAGE SEND]	Detection ON/OFF: Text on image send dots	0 - 1	0
F	SEGMENT: ADJUST [BK TXT 1]	Detection level adjustment: Black text 1	1 - 99	50
G	SEGMENT: ADJUST [CL TXT 1]	Detection level adjustment: Color text 1	1 - 99	50
Н	SEGMENT: ADJUST [BK TXT 2, CL TXT 2]	Detection level adjustment: Black text 2, Color text 2	1 - 49	25
I	SEGMENT: ADJUST [TXT ON SCR 1]	Detection level adjustment: Text 1 on dots	1 - 99	50
J	SEGMENT: ADJUST [TXT ON SCR 2]	Detection level adjustment: Text 2 on dots	1 - 99	50
К	SEGMENT: ADJUST [TXT ON SCR AREA]	Detection level adjustment: Detection area of text on dots	1 - 15	8
L	SEGMENT: ADJUST [HIGH LPI]	Detection level adjustment: High line number judgment	1 - 49	25
М	SEGMENT: ADJUST [BK]	Detection level adjustment: No chrome judgment	1 - 99	50
N	SEGMENT: ADJUST [CL]	Detection level adjustment: Chrome judgment	1 - 99	50
0	SEGMENT: ADJUST [TXT ON BG]	Detection level adjustment: Text on background	1 - 99	50

	Item/Display Content		Setting range	Default value
Р	SEGMENT: ADJUST [SCR 1 HIGH]	Detection level adjustment: High density dots	1 - 49	25
Q	SEGMENT: ADJUST [SCR 1 MIDDLE]	Detection level adjustment: Medium density dots	1 - 49	25
R	SEGMENT: ADJUST [SCR 1 LOW]	Detection level adjustment: Low density dots	1 - 49	25
S	SEGMENT: ADJUST [SCR 2]	Detection level adjustment: Dot 2	1 - 15	8
Т	SEGMENT: ADJUST [SCR 3]	Detection level adjustment: Dot 3	1 - 15	8
U	SEGMENT: ADJUST [LINE HALFTONE]	Detection level adjustment: line screen	1 - 49	25

46-62	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the operating conditions of the
	ACS, the area separation, the background image process, and the auto exposure mode.
Section	

### Operation/Procedure

- Select a target adjustment item with scroll key on the touch panel.
- 2) Enter the adjustment value using the 10-key.
- 3) Press [OK] key.

### Important

This must be set to the default unless any change is specially required.

When the adjustment value is set to a value greatly different from the default value, image quality trouble may occur for some documents.

### 18cpm/20cpm/23cpm/31cpm(G) machine

	Item/Display	Content	Setting range	Default value
Α	SW_ACS	ACS judgment reference area select	0 - 1	1
В	TEXT_IMAGE	Text/Image judgment priority level adjustment	0 - 6	3
С	TEXT_BLANK	Text/Blank judgment priority level adjustment	0 - 6	4
D	HT_LV	Dot area judgment threshold value adjustment	0 - 6	1
Е	AE_AREA_LV	Color AE judgment target area adjustment	0 - 6	3
F	AE_LV_CC	AE background detection division result adjustment: For color copy	0 - 8	4
G	AE_LV_MC	AE background detection division result adjustment: For monochrome copy	0 - 8	4
Н	AE_LV_CS	AE background detection division result adjustment: For color scan	0 - 8	4
I	AE_LV_MS	AE background detection division result adjustment: For monochrome scan	0 - 8	4

	Item/Displa	ау	Content		Setting range		Default value
J	AE_JUDGE		Color AE backgrou		0 -	4	0
	_LV_L_U		density threshold v				
L.,	45 0000		adjustment (lower				•
K	AE_JUDGE	=	Color AE backgrou		0 -	10	0
	LV_L_O		density threshold vadjustment (upper				
L	AE JUDGE	:	Color AE backgrou		0 -	10	5
-	LV C	_	detection level	ana	ľ		Ů
			adjustment (chrom	na)			
М	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	_ONOFF	OFF	OFF switch:	OFF		1	
	_cc		For color copy				
N	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	_ONOFF	OFF	OFF switch:	OFF	1		
	_MC		For mono-				
_	A.E.	011	chrome copy	ON	0 4	_	0 (011)
0	AE	ON	AE mode ON/ OFF switch :	ON	0 - 1	0	0 (ON)
	_ONOFF CS	OFF	For color scan	OFF		1	
Р	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	ONOFF	OFF	OFF switch :	OFF	0-1	1	0 (014)
	MS	OII	For mono-	OH		'	
			chrome copy				
Q	BLANK_JU	DGE_	Blank judgment le	vel	0 -	10	0
	LV_L		adjustment (value)	)			
R	BLANK_JU	DGE_	Blank judgment le	vel	0 -	10	0
	LV_C		adjustment (chrom				
S	MODE0_UI	NDER	Mode 0 developing	_	0 - 6		0
L_			paper mode select				_
Т	MODE1_UI	NDER	Mode 1 developing	_	0 -	6	0
L	L MODES LINES		paper mode select		+		
U	MODE5_UI	NDEK	Mode 5 developing		0 -	ь	0
\	MODES !!!	NDED	paper mode select		0 -	6	0
V	MODE6_UI	NDEK	Mode 6 developing	_	0 -	О	0
Щ.			paper mode select	ι	l		

### 26cpm/36cpm/31cpm(A) machine

	Item/Display	Content	Setting range	Default value
Α	SW_ACS	ACS judgment reference area select	0 - 1	1
В	TEXT_IMAGE	Text/Image judgment priority level adjustment	0 - 6	3
С	TEXT_BLANK	Text/Blank judgment priority level adjustment	0 - 6	4
D	HT_LV	Dot area judgment threshold value adjustment	0 - 6	1
Е	AE_AREA_LV	Color AE judgment target area adjustment	0 - 6	3
F	AE_LV_CC	AE background detection division result adjustment: For color copy	0 - 8	4
G	AE_LV_MC	AE background detection division result adjustment: For monochrome copy	0 - 8	4
Н	AE_LV_CS	AE background detection division result adjustment: For color scan	0 - 8	4
I	AE_LV_MS	AE background detection division result adjustment: For monochrome scan	0 - 8	4
J	AE_JUDGE _LV_L_U	Color AE background density threshold value adjustment (lower limit)	0 - 4	0
K	AE_JUDGE LV_L_O	Color AE background density threshold value adjustment (upper limit)	0 - 10	0
L	AE_JUDGE_ LV_C	Color AE background detection level adjustment (chroma)	0 - 10	5

			_		Setti	ina	Default
	Item/Displa	y	Content		ran	_	value
М	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	ONOFF	OFF	OFF switch :	OFF	1	1	- ()
	_cc		For color copy			-	
N	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	ONOFF	OFF	OFF switch :	OFF		1	, ,
	_MC		For mono-			-	
			chrome copy				
0	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	_ONOFF	OFF	OFF switch:	OFF		1	
	_cs		For color scan				
Р	AE	ON	AE mode ON/	ON	0 - 1	0	0 (ON)
	_ONOFF	OFF	OFF switch:	OFF		1	
	_MS		For mono-				
			chrome copy				
Q	BLANK_JU	DGE_	Blank judgment le	evel	0 - 1	10	0
	LV_L		adjustment (value)				
R	BLANK_JUDGE_		Blank judgment le	evel	0 - 1	10	0
	LV_C		adjustment (chroma)				
S	MODE0_UNDER		Mode 0 developin	ıg	0 - 6		0
	_		paper mode selec	ct			
Т	MODE1_UNDER		Mode 1 developin	ıg	0 -	6	0
			paper mode select				
U	MODE5_U	NDER	Mode 5 developing		0 -	6	0
			paper mode selec	t			
V	MODE6_U	NDER	Mode 6 developin	ıg	0 -	6	0
			paper mode selec	ct			
W	SW_CHAN	GE_	Mode 0: Mode jud	gment	0 -	6	0
	MODE0		select				
Χ	SW_CHAN	GE_	Mode 1: Mode jud	gment	0 -	6	1
	MODE1		select				
Υ	SW_CHAN	GE_	Mode 2: Mode jud	gment	0 -	6	2
	MODE2		select				
Z	SW_CHANGE_		Mode 3: Mode jud	gment	0 -	6	3
	MODE3		select				
AA	SW_CHANGE_		Mode 4: Mode jud	gment	0 -	6	4
	MODE4		select				
AB	SW_CHANGE_		Mode 5: Mode jud	gment	0 -	6	5
	MODE5		select				
AC	SW_CHAN	GE_	Mode 6: Mode jud	gment	0 -	6	6
	MODE6		select				

46-63	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the density in the copy low density section.
Section	
Operation/Procedure	•

- 1) Select a target adjustment item with scroll key on the touch panel.
- 2) Enter the adjustment value using the 10-key.
- 3) Press [OK] key.

When the adjustment value is increased, reproducibility of the background and the low density image is increased. When the adjustment value is decreased, reproducibility of the background and the low density image is decreased.

	Item/Display	Content	Setting range	Default value
Α	COLOR COPY:	Text print	1 - 9	3
	TEXT/PRINTED PHOTO	(color copy)		
В	COLOR COPY : TEXT	Text (color copy)	1 - 9	3
С	COLOR COPY:	Printed photo	1 - 9	5
	PRINTED PHOTO	(color copy)		
D	COLOR COPY:	Photograph	1 - 9	5
	PHOTOGRAPH	(color copy)		
Е	COLOR COPY:	Text/Photograph	1 - 9	3
	TEXT/PHOTO	(color copy)		
F	COLOR COPY : MAP	Map (color copy)	1 - 9	5
G	COLOR COPY : LIGHT	Light document	1 - 9	6
		(color density)		

	Item/Display	Content	Setting range	Default value
Н	COLOR COPY: TEXT/PRINTED PHOTO (COPY TO COPY)	Copy document, Character print (color copy)	1 - 9	5
-	COLOR COPY : TEXT (COPY TO COPY)	Copy document, Character (color copy)	1 - 9	5
J	COLOR COPY : PRINTED PHOTO (COPY TO COPY)	Copy document, Printed photo (color copy)	1 - 9	5
K	COLOR PUSH : TEXT/PRINTED PHOTO	Text print (color PUSH)	1 - 9	3
L	COLOR PUSH : TEXT	Text (color PUSH)	1 - 9	3
М	COLOR PUSH : PRINTED PHOTO	Printed photo (color PUSH)	1 - 9	5
N	COLOR PUSH : PHOTOGRAPH	Photograph (color PUSH)	1 - 9	5
0	COLOR PUSH : TEXT/PHOTO	Text/Photograph (color PUSH)	1 - 9	3
Р	COLOR PUSH : MAP	Map (color PUSH)	1 - 9	5

46-65	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the color correction table.
Section	

- 1) Select an adjustment mode.
- 2) Select an item (mode) to be set with the scroll key.
- 3) Enter the adjustment value using the 10-key.
- 4) Press [OK] key.

When the setting is changed, the color tone is changed. This function is used to make copies of different color tone for each copy mode.

The initial value must be set unless any special change is required.

Mode		Item/Display	Content	Setting range	Default value
COPY	Α	[MANUAL] TEXT PRT	Text print	0 - 8	0
	В	[MANUAL] TEXT	Text	0 - 8	0
	С	[MANUAL] PRINTED PHOTO	Printed Photo	0 - 8	0
	D	[MANUAL] PHOTO	Photograph	0 - 8	1
	Е	[MANUAL] TEXT PHOTO	Text photograph	0 - 8	1
	F	[MANUAL] MAP	Мар	0 - 8	0
	G	[MANUAL] LIGHT	Pencil	0 - 8	0
	Н	[MANUAL] CPT TO CPT/TXT PRT	Copy document/ Text print	0 - 8	0
	I	[MANUAL] CPT TO CPT/TEXT	Copy document/ Text	0 - 8	0
	J	[MANUAL] CPY TO CPY/PHOTO	Copy document/ Printed Photo	0 - 8	0
	K	AUTO0	Automatic mode judgment 0	0 - 8	2
	L	AUTO1	Automatic mode judgment 1	0 - 8	2

Mode		Item/Display	Content	Setting	Default
				range	value
COPY	М	AUTO2	Automatic mode	0 - 8	3
	NI.	AUTO3	judgment 2	0 0	2
	N	AU103	Automatic mode	0 - 8	3
			judgment 3		
	0	AUTO4	Automatic	0 - 8	2
	_		mode		_
			judgment 4		
	Р	AUTO5	Automatic	0 - 8	2
			mode		
	_	ALITOC	judgment 5 Automatic	0 0	0
	Q	AUTO6	mode	0 - 8	2
			judgment 6		
PREVIEW	Α	[MANUAL] TEXT	Text print	0 - 4	0
(Preview		PRT	·		
screen)	В	[MANUAL] TEXT	Text	0 - 4	0
	С	[MANUAL]	Printed	0 - 4	0
	_	PRINTED PHOTO	Photo		
	D	[MANUAL] PHOTO	Photograph	0 - 4	1
	Е	[MANUAL] TEXT	Text	0 - 4	1
	_	PHOTO	photograph	0 4	0
	F	[MANUAL] MAP	Map	0 - 4	0
	G H	[MANUAL] LIGHT [MANUAL] CPT	Pencil	0 - 4	0
	г	TO CPT/TXT PRT	Copy document/ Text print	0 - 4	U
	ı	[MANUAL] CPT	Сору	0 - 4	0
		TO CPT/TEXT	document/ Text		
	J	[MANUAL] CPY	Сору	0 - 4	0
		TO CPY/PHOTO	document/		
			Printed Photo		
	K	AUTO0	Automatic	0 - 4	2
		7.0.00	mode		_
			judgment 0		
	L	AUTO1	Automatic	0 - 4	2
			mode		
		ALITOO	judgment 1	0 4	
	М	AUTO2	Automatic mode	0 - 4	3
			judgment 2		
	N	AUTO3	Automatic	0 - 4	3
			mode		
			judgment 3		
	0	AUTO4	Automatic	0 - 4	2
			mode		
	Р	AUTO5	judgment 4 Automatic	0 - 4	2
	r .	70100	mode	0-4	
			judgment 5		
	Q	AUTO6	Automatic	0 - 4	2
			mode		
			judgment 6		

46-66	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the reproduction capability of watermarks in the copy/printer mode. (26cpm/36cpm/31cpm(A) machine)
Section	

This is to adjust the reproduction capability of watermarks in the  $copy/printer\ mode.$ 

- 1) Select the adjustment mode.
- 2) Select an adjustment item according to the necessity.
- 3) Enter the adjustment value with 10-key and press [OK] key.
- 4) Make a copy, and check the adjustment result.

	Item/Display		Content	Setting range	Default value	Note
		WOVEN DEN BK LOW	Watermark density level (Black LOW)		15	The adjustment value is changed to increase or decrease the density of the
	В	WOVEN DEN BK MIDDLE	Watermark density level (Black MIDDLE)	0 - 255	19	watermark of background documents (primary output).
	С	WOVEN DEN BK HIGH	Watermark density level (Black HIGH)	0 - 255	23	To increase the watermark density, increase the adjustment value.
	D	WOVEN DEN C LOW	Watermark density level (Cyan LOW)	0 - 255	19	To decrease the watermark density, decrease the adjustment value.
	Е	WOVEN DEN C MIDDLE	Watermark density level (Cyan MIDDLE)	0 - 255	23	
	F	WOVEN DEN C HIGH	Watermark density level (Cyan HIGH)	0 - 255	27	Important
	G	WOVEN DEN M LOW	Watermark density level (Magenta LOW)	0 - 255	15	When the adjustment value is increased, the watermark area which is originally not reproduced becomes difficult to disappear.
	Н	WOVEN DEN M MIDDLE	Watermark density level (Magenta MIDDLE)	0 - 255	18	When the adjustment value is decreased, the watermark area which is originally
	I	WOVEN DEN M HIGH	Watermark density level (Magenta HIGH)	0 - 255	21	reproduced becomes easy to disappear.
	J	CONTRAST	Contrast adjustment	0 - 255	2	This is used to adjust the variation in the watermark density when the adjustment value of the watermark print/contrast adjustment in the system setting is changed by 1.  When this value is increased, the variation is also increased. When the value is decreased, the variation is also decreased. When the adjustment value is 0, the result of the contrast adjustment is not reflected. (* The adjustment value must be set to 1 or greater.)
	К	HT TYPE (POSI)	For half-tone index watermark type positive	42 - 43	42	To reproduce the containing characters of watermark copy (secondary output) more clearly, set to 43.  In that case, however, the containing characters of the watermark document (primary output) can be easily reproduced.
	L	HT TYPE (NEGA)	For half-tone index watermark type negative	42 - 43	42	To reproduce the containing characters of watermark copy (secondary output) more clearly, set to 43.  In that case, however, the containing characters of the watermark document (primary output) can be easily reproduced.

	ı	tem/Display	Conte	ent	Setti	_	Default value	Note
COPY MODE	Α	TEXT/PRINTED PHOTO	Text/Printed Photo mode select Enable/ Disable	OFF ON	0 - 1	0	1	Normally set to the default. No need to change in the market.
	В	TEXT	Text mode select Enable/Disable	OFF ON	0 - 1	0	1	
	С	PRINTED PHOTO	Printed Photo mode select Enable/Disable	OFF ON	0 - 1	0	1	
	D	PHOTOGRAPH	Photograph mode select Enable/Disable	OFF ON	0 - 1	0	1	
	Е	TEXT/PHOTO	Text/Photograph mode select Enable/ Disable	OFF ON	0 - 1	0	1	
	F	MAP	Map mode select Enable/Disable	OFF ON	0 - 1	0	1	
	G	LIGHT	Light density document mode select Enable/Disable	OFF ON	0 - 1	0	1	
	Н	TEXT/PRINTED PHOTO (CPY TO CPY)	Copy document: Text/ Printed Photo mode select Enable/Disable	OFF ON	0 - 1	0	1	
	I	TEXT (CPY TO CPY)	Copy document: Text mode select Enable/ Disable	OFF ON	0 - 1	1	1	
	J	PRINTED PHOTO (CPY TO CPY)	Copy document: Printed Photo mode select Enable/Disable	OFF ON	0 - 1	1	1	
	K	AUTO	Automatic mode select Enable/Disable	OFF ON	0 - 1	0	1	
	L	DEFAULT MODE	Default exposure mode Used to specify the exposure mode set when the watermark is ON.	TEXT/ PRINTED PHOTO TEXT PRINTED PHOTO PHOTOGRAPH TEXT/PHOTO	0 - 5	0 1 2 3 4 5	0	
POSITION	Α	LINE SPACE 1	Line space in the water (24P - 36P)	mark print box	0 - 2	00	20	
	В	LINE SPACE 2	Line space in the water (37P - 48P)	Line space in the watermark print box (37P - 48P)		0 - 200 20		
	С	LINE SPACE 3	Line space in the water (49P - 64P)	mark print box	0 - 200 20 0 - 200 20		20	
	D	LINE SPACE 4	Line space in the water (65P - 80P)	mark print box			20	
	Е	BLANK H/B 1	Upper margin/Lower ma watermark print box (24	0 - 200 10		10		
	F	BLANK H/B 2	Upper margin/Lower may watermark print box (37	•	0 - 2	00	10	
	G	BLANK H/B 3	Upper margin/Lower may watermark print box (49	•	0 - 200 10		10	
	Н	BLANK H/B 4	Upper margin/Lower may watermark print box (65	argin in the	0 - 2	00	10	
	I	BLANK L/R 1	Left margin/Right margi	,	0 - 2	00	60	
	J	BLANK L/R 2	Left margin/Right margi print box (37P - 48P)	n in the watermark	0 - 2	00	90	
	K	BLANK L/R 3	Left margin/Right margin print box (49P - 64P)	n in the watermark	0 - 2	00	120	
	L	BLANK L/R 4	Left margin/Right margin print box (65P - 80P)	n in the watermark	0 - 2	00	150	

46-74	
Purpose	Adjustment
Function (Purpose)	Copy color balance adjustment (Auto
	adjustment)/Printer color balance adjustment (Auto adjustment)

Section

#### Operation/Procedure

This simulation is used to perform SIM46-24 and SIM67-24 continuously.

To perform both the copy color balance adjustment (Automatic adjustment) and the printer color balance adjustment (Automatic adjustment), use this simulation for efficient adjustment operations.

- Press [EXECUTE] key, and the high density process control is performed. Then, the copy color balance adjustment pattern is printed.
- Place the printed adjustment pattern on the document table, select [FACTORY] or [SERVICE] mode.
- 3) Press [EXECUTE] key, and the copy color balance adjustment is performed and the adjustment result pattern is printed.
- Press [EXECUTE] key, and the printer color balance adjustment pattern is printed.
- Place the printed adjustment pattern on the document table, select [FACTORY] or [SERVICE] mode.
- 6) Press [EXECUTE] key, and the printer color balance adjustment (automatic adjustment) is performed and the adjustment result pattern is printed.
- 7) Press [OK] key, and the halftone correction target is registered.
- 8) When [EXECUTE] key is displayed, press it.

When "COMPLETED THIS PROCEDURE" is displayed, the adjustment is completed.

### Important

The adjustment result becomes effective only when the adjustment procedure for both copy and print mode have completed successfully. For example, when the copy color balance adjustment (automatic adjustment) is performed and the simulation is canceled, the adjustment result is not effective.

46-90	
Purpose	Adjustment
Function (Purpose)	Used to set the process operation of high-compression PDF images. (26cpm/36cpm/31cpm(A) machine)
Section	

### Operation/Procedure

- 1) Select a target adjustment mode.
- 2) Select an adjustment target item with the scroll key.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key. The set value is saved.

Mode		Item/Display	Content	Setting range	Default value
TEXT	Α	GLYPH SENSITIVITY	Text handling selection	0 - 2	0
	В	BG SW FOR FINDLINES	Line handling selection	0 - 1	0
	С	HOR FINDLINES SW	Line detection SW (H)	0 - 2	0
	D	VERT FINDLINES SW	Line detection SW (V)	0 - 2	0
	Е	FGCOLOR INDEXING SEL	Text color number adjustment SW	0 - 3	0
	F	FGCOLOR INDEXING ADJ	Text color adjustment	0 - 4	2
COLOR	Α	LUMINANCE ADJUSTMENT	Luminance adjustment	0 - 4	2
	В	CHROMA INTENT	Chroma selection	0 - 2	1
	С	NEUTRAL ADJUSTMENT	Neutral adjustment	0-2	0
	D	R-RATIO ADJUSTMENT	Gray scale adjustment (R)	0-1000	299
	Ε	G-RATIO ADJUSTMENT	Gray scale adjustment (G)	0-1000	587
BG LAYER	Α	BG LAYER INTENT 1	Speed priority setting	0 - 2	1
	В	BG LAYER INTENT 2	Image quality priority setting	0 - 2	1

46-91	
Purpose	Adjustment
Function (Purpose)	Used to adjust the reproduction capability of black text. (26cpm/36cpm/31cpm(A) machine)
Section	

### Operation/Procedure

- 1) Select an item to be set with the scroll key.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The adjustment value is set.

When COLOR key or MONO key is pressed, the adjustment value is set and a copy is made simultaneously.

Item	Display		Content	Description	Setting range	Default value
A	SEGMENT PARAM	COMMON SPECIAL	Area separation setting select	O: Other than image send mode black text emphasis (simple, high compression) I: Image send mode black text emphasis (simple, high compression)	0 - 1	0
В	BG: JPEG QUALITY LV [COL: C	OMPACT]	JPEG recompression level adjustment [Color: High compression mode]	The JPEG compression ratio of the background layer is selected.	0 - 2	1
С	BG: JPEG QUALITY LV [COL: ULTRA FINE]		JPEG recompression level adjustment [Color: Ultra fine mode]	0: Low 1: Middle	0 - 2	1
D	BG: JPEG QUALITY LV [GRY: C	OMPACT]	JPEG recompression level adjustment [Gray: High compression mode]	2: High	0 - 2	1
Е	BG: JPEG QUALITY LV [GRY: U	LTRA FINE]	JPEG recompression level adjustment [Gray: Ultra fine mode]		0 - 2	1
F	FG: TARGET AREA	TYPE0	Front ground extraction area select	0: type0	0 - 2	0
		TYPE1		1: type1		
		TYPE2		2: type2		
G	FG: TEXT DENSITY [COL]		Front ground black text density adjustment [Color]	The black text density in the front ground layer is changed.	0 - 10	5
Н	FG: TEXT DENSITY [GRY]		Front ground black text density adjustment [Gray]	0: Dark - 5: Default - 10: Light	0 - 10	5
I	ULTRA FINE MODE	OFF	High compression/Ultra Fine mode select	0: High compression mode 1: Ultra fine mode	0 - 1	0

Note

This must be set to the default unless any change is specially required.

When the adjustment value is changed greatly from the initial value, an image quality trouble may occur.

# 48

48-1	
Purpose	Adjustment
Function (Purpose)	Used to adjust the scan image magnification ratio (in the main scanning direction and the sub scanning direction).
Section	

### Operation/Procedure

- Select a target adjustment item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key.

The set value is saved.

When the adjustment value is increased, the image magnification ratio is increased.

A change of "1" in the adjustment value of item A, C, or E corresponds to a change of about 0.02% in the copy magnification ratio. A change of "1" in the adjustment value of item B, D, or F corresponds to a change of about 0.1% in the copy magnification ratio.

### [RSPF]

Item/Display		Content	Setting range	Default value
Α	CCD (MAIN)	SCAN main scanning magnification ratio adjustment (CCD)	1 - 99	50
В	CCD (SUB)	D (SUB) SCAN sub scanning magnification ratio adjustment (CCD)		50
С	SPF (MAIN)	RSPF document front surface magnification ratio adjustment (Main scan)	1 - 99	50
D	SPF (SUB)	RSPF document front surface magnification ratio adjustment (Sub scan)	1 - 99	50
Е	SPFB (MAIN)	RSPF document back surface magnification ratio adjustment (Main scan)	1 - 99	50

Item/Display		Item/Display Content		Default value
F	SPFB (SUB)	RSPF document back surface magnification ratio adjustment (Sub scan)	1 - 99	50

48-5	
Purpose	Adjustment
Function (Purpose)	Used to correction the scan image magnification ratio (in the sub scanning direction).
Section	Scanner section

### Operation/Procedure

- Select a target adjustment item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- Press [OK] key.

The set value is saved.

When the image magnification ratio in the sub scanning direction is adjusted with SIM48-1, and a different magnification ratio is specified, and the image magnification ratio is not satisfactory, perform this adjustment.

When there is an error in the image magnification ratio in reduction, change the adjustment value in the high speed mode. When there is an error in the image magnification ratio in enlargement, change the adjustment value in the low speed mode.

Ite	em/Display	Content	Setting range	Default value
Α	MR (HI)	Scanner motor (High speed)	1 - 99	50
В	MR(MID)	Scanner motor (Reference speed)	1 - 99	50
С	MR(LO)	Scanner motor (Low speed)	1 - 99	50
D	SPF(HI)	Document feed (SPF) motor (High speed)	1 - 99	50
Е	SPF(MID)	Document feed (SPF) motor (Reference speed)	1 - 99	50

48-6				
Purpose	Adjustment			
Function (Purpose)	,			
	motor.			
Section				

- 1) Select an adjustment target mode with [COLOR] [MONO] [HEAVY] keys on the touch panel.
- Select a target adjustment item with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key.

The set value is saved.

When the adjustment value is increased, the speed is increased, and vice versa. A change of 1 in the adjustment value corresponds to a change of about 0.1% in the speed.

### 18cpm/20cpm/23cpm/26cpm/31cpm machine

Mode Select	Ite	m/Display	Content	Setting range	Default value
COLOR	Α	RRM	Registration motor	1 - 99	51
MONO			correction value		
HEAVY			(23cpm machine only)		
COLOR	В	DVM_K	Developing K motor	1 - 99	45
MONO			correction value		
HEAVY					
COLOR**	С	FSM	Fusing motor	1 - 99	38*1
			correction value		44*2
HEAVY					41
COLOR	D	DVM_CL	Developing CL motor	1 - 99	45
HEAVY			correction value		
COLOR*	Ε	PFM	Paper transport motor	1 - 99	48
			correction value		
			(23cpm machine only)		
COLOR*	F	POM	Paper exit motor	1 - 99	50
	_		correction value		
HEAVY	Е	FUSER	Fusing speed select	1 - 99	60
		SETTING	timing		
HEAVY	F	RRM	(23 cpm machine only) Registration motor	0 - 255	109
HEAVI	Г	START	speed increasing start	0 - 200	109
		OTAIN	timing		
HEAVY	G	RRM	Registration motor	0 - 255	210
		END	speed increasing end		
			timing		

<sup>\*</sup> Common items for color, monochrome, and heavy paper

The greater the correction value is, the higher the speed is, and vice versa. Change by ±1 corresponds to 0.1%.

### 36cpm machine

Mode	Ite	m/Display	Content	Setting range	Default value
COLOR	Α	RRM	Registration motor	1 - 99	51
MONO			correction value		
HEAVY					
COLOR	В	BTM	Belt motor correction	1 - 99	47
MONO			value		
HEAVY					
COLOR	С	DVM_K	Developing K motor	1 - 99	45
MONO			correction value		
HEAVY					
COLOR**	D	FSM	Fusing motor	1 - 99	Refer
HEAVY			correction value		to the
					list
					below.
COLOR	Е	DVM_CL	Developing CL motor	1 - 99	45
HEAVY			correction value		

Mode	Ite	m/Display	Content	Setting range	Default value
COLOR*	F	PFM	Paper transport motor correction value	1 - 99	48
COLOR*	G	POM	Paper exit motor correction value	1 - 99	50
HEAVY	F	FUSER SETTING	Fusing speed select timing	1 - 99	60
HEAVY	G	RRM START	RPM acceleration start timing	0 - 255	109
HEAVY	Н	RRM END	RPM acceleration end timing	0 - 255	210

#### **Default value of FSM**

	Default value					
Item	26cpm/31cpm machine		36cpm machine			
iteiii	Group	Group	Group	Group	Group	Group
	Α	Α	В	С	В	С
D	44	44	44	44	44	44

Group	Destination			
Group A	JAPAN	AB_B	CHINA	
Group B	U. S. A	CANADA	INCH	
Group C	EUROPE	U. K	AUS.	AB_A

### Important

This must be set to the default unless any change is specially required.

When the adjustment value is set to a value greatly different from the default value, a jam, paper wrinkle, or image quality trouble may occur.

# 49

49-1	
Purpose	
Function (Purpose)	Used to perform the firmware update.
Section	

### Operation/Procedure

- 1) Save the firmware to the USB memory.
- Insert the USB memory into the main unit. (Use USB I/F of the operation panel section.)
- 3) Select a target firmware file for update with the touch panel.
- 4) Select a target firmware.

Press [ALL] key to select all the Firmware collectively.

- 5) Press [EXECUTE] key.
- 6) Press [YES] key.

The selected firmware is updated.

When the operation is normally completed, "COMPLETE" is displayed. When terminated abnormally, "ERROR" is displayed.

### 18cpm/20cpm/23cpm/31cpm(G) machine

Item/Display	Content	Error display in case of abnormality
CONFIG	Configuration data	CONF
ICU (MAIN)	ICU Main section	ICUM
ICU (BOOTM)	ICU Boot section main	ICUBM
ICU (BOOTCN)	ICU Boot section CN	ICUCN
ICU (SUB)	ICU Sub section (ARM9)	ICUS
LANGUAGE	Language support data program	LANG
GRAPHIC	Graphic data for L-LCD	GRAPH
SLIST	SLIST data for L-LCD	SLIST
PCL (BOOT)	PCL Boot section	PCLB
PCL (MAIN)	PCL Main section	PCLM

<sup>\*\*</sup> Common items for color and monochrome

<sup>\*1:</sup> In the case of 20cpm machine

<sup>\*2:</sup> In the case of 23cpm machine

Item/Display	Content	Error display in case of abnormality
PCL (CONFIG)	PCL Configuration data	PCLC
PCL (PROFILE)	PCL Color profile	PCLP
PCU (BOOT)	PCU Boot section	PCUB
PCU (MAIN)	PCU Main section	PCUM
DESK (BOOT)	Desk unit boot section	DESKB
DESK (MAIN)	Desk unit main section	DESKM
FIN (BOOT)	Inner finisher boot section	FINB
FIN (MAIN)	Inner finisher main section	FINM
SCU (BOOT)	SCU Boot section	SCUB
SCU (MAIN)	SCU Main section	SCUM
FAX (BOOT)	FAX1 Boot section	FAXB
FAX (MAIN)	FAX1 Main section	FAXM
ANIMATION	Animation data	ANIME
WEB HELP	WEB help	WEBHP

### 26cpm/36cpm/31cpm(A) machine

Item/Display	ltem/Display Content	
CONFIG	Configuration data	CONF
ICU (MAIN)	ICU Main section	ICUM
ICU (BOOTM)	ICU Boot section main	ICUBM
ICU (BOOTCN)	ICU Boot section CN	ICUCN
ICU (SUB)	ICU Sub section (ARM9)	ICUS
LANGUAGE	Language support data program	LANG
GRAPHIC	Graphic data for L-LCD	GRAPH
UICONTENTS	Content data for display	UICON
SLIST	SLIST data for L-LCD	SLIST
EOSA	embedded OSA	EOSA
PCL (BOOT)	PCL Boot section	PCLB
PCL (MAIN)	PCL Main section	PCLM
PCL (CONFIG)	PCL Configuration data	PCLC
PCL (PROFILE)	PCL Color profile	PCLP
PCU (BOOT)	PCU Boot section	PCUB
PCU (MAIN)	PCU Main section	PCUM
DESK (BOOT)	Desk unit boot section	DESKB
DESK (MAIN)	Desk unit main section	DESKM
A4LCC (BOOT)	LCC Boot	LCC4B
A4LCC (MAIN)	LCC Main	LCC4M
FIN (BOOT)	Inner finisher boot section	FINB
FIN (MAIN)	Inner finisher main section	FINM
1KFIN (BOOT)	Saddle stitch finisher Boot	FIN1B
1KFIN (MAIN)	Saddle stitch finisher Main	FIN1M
1KPUNCH (BOOT)	Saddle punch unit Boot	1PUNB
1KPUNCH (MAIN)	Saddle punch unit Main	1PUNM
SCU (BOOT)	SCU Boot section	SCUB
SCU (MAIN)	SCU Main section	SCUM
FAXOPT1 (BOOT)	FAX1 Boot section	FXO1B
FAXOPT1 (MAIN)	FAX1 Main section	FXO1M
PDL_FONT	PDL font	PDL
ANIMATION	NIMATION Animation data	
WEB HELP	WEB help	WEBHP
ACRE (BOOT)	Enhanced compression kit Boot	ACREB
ACRE (MAIN)	Enhanced compression kit Main	ACREM
ACRE_DATA	Enhanced compression kit Table	ACRED

### List of error displays in case of abnormal end

Item/Display	Content
CONF	Configuration data
ICUM	ICU Main section former half
ICUBM	ICU Boot section main
ICUCN	ICU Boot section CN
LANG	Language support data program (General term)
GRAPH	Graphic data for L-LCD
SLIST	SLIST data for L-LCD
PCUB	PCU Boot section
PCUM	PCU Main section

Item/Display	Content
DESKB	Desk unit BOOT section
DESKM	Desk unit MAIN section
LCC4B	Side LCC (A4) Boot section
LCC4M	Side LCC (A4) main section
FINB	Inner finisher BOOT section
FINM	Inner finisher MAIN section
FIN1B	1K finisher Boot section
FIN1M	1K finisher Main section
FIN4B	4K finisher Boot section
FIN4M	4K finisher Main section
1PUNB	Punch unit Boot section for 1K finisher
1PUNM	Punch unit Main section for 1K finisher
4PUNB	Punch unit Boot section for 4K finisher
4PUNM	Punch unit Main section for 4K finisher
SCUB	SCU Boot section
SCUM	SCU Main section
FAXB	FAX1 Boot section
FAXM	FAX1 Main section
FXOPB	FAX2 Boot section (Japan only)
FXOPM	FAX2 Main section (Japan only)
ESCP	ESC/P font
PDL	PDL font
ANIME	Animation data
IMGDT	Image ASIC data
CORP	Color profile
WEBHP	WEB help
UNICD	UNICODE table
UICON	Content data for display

49-3	
Purpose	
Function (Purpose)	Used to update the operation manual in the HDD.
Section	
Operation/Procedure	•

### Operation/Procedure

- 1) Insert the USB memory into the main unit.
  - \* When the USB is not inserted, "INSERT A STORANGE E-MANUAL STORED ON" is displayed. When [OK] key is pressed, the display is shifted to the folder select menu 1.
- 2) Press the folder button of the operation manual data. (The display is shifted to the operation manual update menu.)

The current version and the update version are displayed.

- 3) Press [EXECUTE] key.
  - [EXECUTE] key is highlighted, and [YES] [NO] keys becomes active from gray out.
- When [YES] key is pressed, the selected operation manual is updated.

When update is completed normally, "COMPLETE" is displayed. When terminated abnormally, "ERROR" is displayed.

49-5	
Purpose	
Function (Purpose)	Used to perform the watermark update.
Section	

### Operation/Procedure

- 1) Insert the USB memory into the main unit.
- Select the button of the folder to perform the watermark update.
- 3) The current version and the update version are displayed.
- 4) Press [EXECUTE] key.
- 5) Press [YES] key.

The selected watermark is updated.



50-1	
Purpose	Adjustment
Function (Purpose)	Copy image position, image loss adjust- ment
Section	Then:

- 1) Select an adjustment target item with scroll key on the touch
- Enter the set value with 10-key.

Set the items other than RRCA, LEAD, and SIDE to the default.

RRCA: Image lead edge reference position adjustment

LEAD: Lead edge image loss adjustment

SIDE: Side image loss adjustment

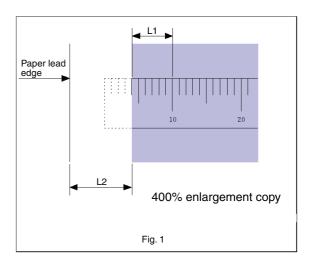
3) Press [OK] key. (The set value is saved.)

	Item/Dis	splay	Coi	ntent	Setting range	Default value
Α	Lead edge adjust-	RRCA	Document edge refer position (	rence	0 - 99	50
В	ment value	RRCB-CS1	Regis- tration	Standard Tray	1 - 99	60
С		RRCB-DSK	motor	Desk	1 - 99	60
D		RRCB-LCC	ON	LCC	1 - 99	60
Е		RRCB-MFT	timing adjust- ment	Manual paper feed	1 - 99	60
F		RRCB-ADU		ADU	1 - 99	60
G	Image loss area	LEAD	Lead edg loss area	•	0 - 99	40
Н	setting value	SIDE	Side imag area adju	•	0 - 99	20
Ι	Void area adjust-	DENA	Lead edg area adju		1 - 99	40
J	ment	DENB	Rear edg area adju		1 - 99	30
K		FRONT/ REAR	FRONT/F area adju	REAR void stment	1 - 99	20
L	Off-center adjust- ment	OFFSET_ OC	OC docui center ad		1 - 99	50
M	Magnificat ion ratio correc- tion	SCAN_ SPEED_ OC	SCAN sul magnifica adjustme		1 - 99	50
Ν	Sub scanning	DENB-MFT	Manual fe		1 - 99	50
0	direction print area	DENB-CS1	Tray 1 co value	rrection	1 - 99	50
Р	correction value	DENB-CS2	Tray 2 co value	rrection	1 - 99	50
Q		DENB-CS3	Tray 3 co value	rrection	1 - 99	50
R		DENB-CS4	Tray 4 co	rrection	1 - 99	50
S		DENB-LCC	LCC corre	ection	1 - 99	50
T		DENB-ADU	ADU corr	ection	1 - 99	50
U		DENB-HV	Heavy pa	•	1 - 99	50

- A. (RRC-A) Timing from starting document scanning to specifying the image lead edge reference is adjusted. (01.mm/step)
  - \* When the value is decreased, the timing is advanced. When the value is increased, the timing is delayed.
- B F. (RRC-B) Timing of paper (registration roller ON) for the image position on the transfer belt is adjusted. (0.1mm/step)
  - \* When the value is decreased, the timing is delayed. When the value is increased, the timing is advanced.
- G. (LEAD) The lead edge image loss amount is adjusted. (0.1mm/ step)
  - \* When the value is increased, the image loss is increased.
- H. (SIDE) The side image loss amount is adjusted.
  - \* When the value is increased, the image loss is increased. (0.1mm/step)
- I. (DEN-A) The paper lead edge void amount is adjusted. (0.1mm/ step)
  - \* When the value is increased, the void is increased.
- J. (DEN-B) The paper rear edge void amount is adjusted. (0.1mm/ step)
  - \* When the value is increased, the void is increased.
- K. (FRONT/REAR) The void amount on the right and left edges of paper is adjusted. (0.1mm/step)

50-2	
Purpose	Adjustment
Function (Purpose)	Used to adjust the copy image position and the image loss. (This simulation is a simplified version of SIM 50-1.) (18cpm/20cpm/23cpm/31cpm(G) machine)
Section	
Operation/Procedure	•

- 1) Set item A (L1) and item B (L2) to 0.
- 2) Place a rule on the left edge of the document table, and make a copy at a magnification ratio of 400%.
- 3) Measure the length of L1 and L2 on the copied image in the unit of 0.1mm (referring to the figure below). Enter the adjustment values of L1 x 10 and L2 x 10. Be sure to enter the both adjustment values of L1 and L2.
  - L1: Distance from the lead edge of the copied image to 10mm
  - L2: Distance from the paper lead edge to the copy image lead edge.



- 4) Press [EXECUTE] key. (The set value is saved.)
- Make a copy at the magnification ratio of 100%, and adjust the rear edge void.

	Item/Disp	lay	Description	Setting range	Default value
A	Actual measurem ent value	L1	Distance from the image lead edge to the scale of 10mm. (Platen 400%, 0.1mm increment)	0 - 999	-
В		L2	Distance from the paper lead edge to the image lead edge (0.1mm increment)	0 - 999	0
С	Image loss area setting value	LEAD	Lead edge image loss amount setting (When the adjustment value is increased, the image loss is increased.)	0 - 99	40
D		SIDE	Side edge image loss amount setting (When the adjustment value is increased, the image loss is increased.)	0 - 99	20
E	Void area adjustment	DENA	Lead edge void area adjustment (When the adjustment value is increased, the void is increased.)	1 - 99	40
F		DENB	Rear edge void area adjustment (When the adjustment value is increased, the void is increased.)	1 - 99	30
G		FRONT/ REAR	FRONT/REAR void amount adjustment (When the adjustment value is increased, the void is increased.)	1 - 99	20

Same as the adjusted items of SIM50-01 except for A and B.

The values adjusted with A and B are reflected to the document lead edge reference position (RRC-A) of SIM50-01 and all the paper lead edge positions (RRCB-\*\*).

All adjustment items: 1 step = 0.1mm change

50-5	
Purpose	Adjustment
Function (Purpose)	Used to adjust the print lead edge image
	position. (PRINTER MODE)
Section	

- Select a target adjustment item (DEN-C) with scroll key on the touch panel.
- 2) Enter the adjustment value using the 10-key.
- 3) Press [EXECUTE] key.
  - The set value is saved, and the adjustment check pattern is printed.
- 4) Measure the distance from the paper lead edge the adjustment pattern to the image lead edge, and check to confirm that it is in the standard adjustment value range.

Standard reference value: 4.0±2.0mm

When the adjustment value is increased, the distance from the paper lead edge to the image lead edge is increased. When the adjustment value is decreased, the distanced is decreased.

When the set value is changed by 1, the distance is changed by about  $0.1 \, \text{mm}$ .

	Item/Displ	lay	Cont	ent	Settin rang	•	Default value	NOTE
Α	DEN-C		Used to adjust the print lead edge image position. (PRINTER MODE)		1 - 99	9	30	Adjustment value too align the print lead edge for the printer. When the adjustment value of this item is decreased by 1, the printer print start position in the paper transport direction is shifted to the lead edge by 0.1mm.
В	DEN-B		Rear edge void area ad	justment	1 - 99	9	30	Void amount generated at the paper rear edge. When the adjustment value of item B (DEN-B) is decreased by 1, the print area adjustment value in the sub scanning direction for the paper transport direction is decreased by 0.1mm.
С	FRONT/REAR		FRONT/REAR void are	a adjustment	1 - 99	9	20	Adjustment of the void amount generated on the left and right edges of paper. When the adjustment value is increased, the void amount is increased.
D	DENB-MF	Γ	Manual feed rear edge correction value	void area adjustment	1 - 99	9	50	Fine adjustment value of each paper feed source for the adjustment value of DEN-B
E	DENB-CS1		Tray 1 rear edge void area adjustment correction value		1 - 99	9	50	
F	DENB-CS2	2	Tray 2 rear edge void area adjustment correction value		1 - 99	9	50	
G	DENB-CS3	3	Tray 3 rear edge void area adjustment correction value		1 - 99	9	50	
Н	DENB-CS4	1	Tray 4 rear edge void a correction value	rea adjustment	1 - 99	9	50	
I	DENB-LCC	)	LCC rear edge void aria correction value	adjustment	1 - 99	9	50	
J	DENB-ADI	J	ADU rear edge void aria correction value	a adjustment	1 - 99	9	55	
K	DENB-HV		Heavy paper correction	value	1 - 99	9	50	
L	MULTI CO	UNT	Number of print		1 - 99	9	1	Adjustment pattern print conditions setting
M	PAPER	MFT	Tray selection	Manual paper feed	1 - 6	1	2 (CS1)	
		CS1		Tray 1		2		
		CS2		Tray 2		3		
		CS3	-	Tray 4		<u>4</u> 5		
		CS4 LCC	1	Tray 4 LCC		6		
N	DUPLEX	YES	Duplex print selection	Yes	0 - 1	0	1 (NO)	
``		NO		No		1	. ()	

When the adjustment value is increased, the distance from the paper lead edge to the image lead edge is increased. When the adjustment value is decreased, the distance from the paper lead edge to the image lead edge is decreased.

When the set value is changed by 1, the distance is changed by about 0.1mm.

50-6	
Purpose	Adjustment
Function (Purpose)	Used to adjust the copy image position and
	the image loss. (RSPF mode)
Section	RSPF

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

### [RSPF]

	Item/	Display	Content	Setting range	Default value
Α	SIDE1		Front surface document scan position adjustment (CCD)	1 - 99	50
В	SIDE2		Back surface document scan position adjustment (CCD)	1 - 99	50
С	Image loss amount setting SIDE1	LEAD_EDGE (SIDE1)	Front surface lead edge image loss amount setting	0 - 99	20
D	Image loss amount	FRONT_REAR (SIDE1)	Front surface side image loss amount setting	0 - 99	20
Е	setting SIDE1	TRAIL_EDGE (SIDE1)	Front surface rear edge image loss amount setting	0 - 99	40
F	Image loss amount	LEAD_EDGE (SIDE2)	Back surface lead edge image loss amount setting	0 - 99	20
G	setting SIDE2	FRONT_REAR (SIDE2)	Back surface side image loss amount setting	0 - 99	20
Н		TRAIL_EDGE (SIDE2)	Back surface rear edge image loss amount setting	0 - 99	40
!	OFSET_	SPF1	SPF front surface document off-center adjustment	1 - 99	50
J	OFSET_SPF2		SPF back surface document off-center adjustment	1 - 99	50
K	SCAN_S	PEED_SPF1	RSPF document front surface magnification ratio (Sub scan)	1 - 99	50
L	SCAN_S	PEED_SPF2	RSPF document back surface magnification ratio (Sub scan)	1 - 99	50

Item A, B: When the adjustment value is increased, the scan timing is delayed.

Item C - H: When the adjustment value is increased, the image loss is increased.

Item E - H: When a shadow image appears on the rear edge, increase the adjustment value to delete the shadow.

All adjustment items: 1 step = 0.1mm change

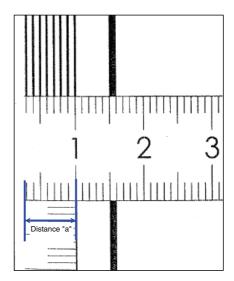
50-7	
Purpose	Adjustment
Function (Purpose)	Used to adjust the copy image position and the image loss (RSPF mode). (This simulation is a simplified version of SIM 50-6.) (18cpm/20cpm/23cpm/31cpm(G) machine)
Section	RSPF

#### Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel.
- 2) Set item A (L4) and item B (L5) to 0.
- Set the magnification ratio to 200%, and make a copy in the RSPF duplex mode.
- Measure the size of the printed image. Enter the actual measurement value of distance a (RSPF) to L4 and L5 in the unit of 0.1mm.

(Adjustment value "1" for 0.1mm)

L4: Distance a (RSPF front surface: 200%) (unit: 0.1mm) L5: Distance a (RSPF back surface: 200%) (unit: 0.1mm)



5) Press [EXECUTE] key. (The set value is saved.)

### [RSPF]

	Item/Display	Content	Setting range	Default value
Α	L4	Distance (SPF 200%, 0.1mm unit) from the front surface image lead edge to the scale of 10mm.	0 - 999	1
В	L5	Distance (SPF 200%, 0.1mm unit) from the back surface image lead edge to the scale of 10mm.	0 - 999	1
С	LEAD_EDGE (SIDE1)	Front surface lead edge image loss amount setting	0 - 99	20
D	FRONT_REAR (SIDE1)	Front surface side image loss amount setting	0 - 99	20
Е	TRAIL_EDGE (SIDE1)	Front surface rear edge image loss amount setting	0 - 99	40
F	LEAD_EDGE (SIDE2)	Back surface lead edge image loss amount setting	0 - 99	20
G	FRONT_REAR (SIDE2)	Back surface side image loss amount setting	0 - 99	20
Н	TRAIL_EDGE (SIDE2)	Back surface rear edge image loss amount setting	0 - 99	40

Item C - H: When the adjustment value is increased, the image loss is increased.

All adjustment items: 1 step = 0.1mm change Items C - H are linked with items C - H of SIM50-06.

50-10	
Purpose	Adjustment
Function (Purpose)	Used to adjust the black print image magnification ratio and the off-center position. (The adjustment is made separately for each paper feed section.)
Section	

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [EXECUTE] key. (The set value is saved.)

	Item/Dis	play	Content		Setting r	ange	Default value	NOTE
Α	BK-MAG		Main scan print magnification ratio B	K	60 - 140		110	Adjustment Item List
В	MAIN-MFT		Print off center adjustment value (Ma	nual paper feed)	1 - 99	9	50	1
С	MAIN-CS1		Print off center adjustment value (Tra	ay 1)	1 - 99	9	52	
D	MAIN-CS2		Print off center adjustment value (Tra	ay 2)	1 - 99	9	52	1
Е	MAIN-CS3		Print off center adjustment value (Tra	ay 3)	1 - 99	9	52	1
F	MAIN-CS4		Print off center adjustment value (Tra	ay 4)	1 - 99	9	52	
G	MAIN-LCC		Print off center adjustment value (La	rge capacity tray)	1 - 99	9	52	1
Н	MAIN-ADU		Print off center adjustment value (Du	plex)	1 - 99	9	42	Adjustment Item List
			Important  If the adjustment items A - G are not adjustment cannot be executed prop					
	SUB-MFT		Registration motor ON timing	Manual paper feed	1 - 99	9	60	1
j	SUB-CS1		adjustment	Standard cassette	1 - 99		60	1
K	SUB-DSK			DESK	1 - 99	9	60	1
L	SUB-LCC			LCC	1 - 99	9	60	1
М	SUB-ADU			ADU	1 - 99	9	60	1
N	MULTI COU	NT	Number of print		1 - 999		1	Adjustment pattern print
0	PAPER	MFT	Tray selection	Manual paper feed	1 - 6	1	2 (CS1)	conditions setting
		CS1		Tray 1		2		
		CS2		Tray 2		3		
		CS3		Tray 3		4		
		CS4		Tray 4		5		
		LCC		LCC		6		
Р	DUPLEX	YES	Duplex print selection	Yes	0 - 1	0	1 (NO)	
		NO		No		1		

Item A: When the set value is increased, the BK image magnification ratio in the main scanning direction is increased. When the set value is decreased, the image magnification ratio is decreased.

Item B - H: When the adjustment value is increased, it is shifted to the front frame side. When the adjustment value is decreased, it is shifted to the rear frame side.

All adjustment items: 1 step = 0.1mm change

50-12	
Purpose	Adjustment
Function (Purpose)	Used to perform the scan image off-center position adjustment. (The adjustment is made separately for each scan mode.)
Section	

### Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image position is shifted to the rear frame side. When the adjustment value is decreased, it is shifted to the front frame side.

1step = 0.1mm

	Item/Display	Content	Setting range	Default value
Α	ОС	Document table image off- center adjustment	1 - 99	50
В	SPF (SIDE1)	SPF front surface image off- center adjustment	1 - 99	50
С	SPF (SIDE2)	SPF back surface image off- center adjustment	1 - 99	50

50-20	
Purpose	Adjustment
Function (Purpose)	Image registration adjustment (Main scanning direction)
Section	

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [EXECUTE] key. (The set value is saved.)

							Defau	It value
	Item/Displ	ay	Content		Setti rang	-	18cpm/ 20cpm/ 23cpm machine	26cpm/ 31cpm/ 36cpm machine
Α	CYAN(FRO	NT)	Registration adjustment value main scanning direction CYAN F sid	1 - 1	99	1	00	
В	CYAN(REAL	₹)	Registration adjustment value main scanning direction CYAN R si	de	1 - 1	99	1	00
С	MAGENTA(	FRONT)	Registration adjustment value main scanning direction MAGENTA	A F side	1 - 1	99	1	00
D	MAGENTA(	REAR)	Registration adjustment value main scanning direction MAGENTA	R side	1 - 1	99	1	00
Е	YELLOW(FI	RONT)	Registration adjustment value main scanning direction YELLOW F	F side	1 - 1	99	1	00
F	YELLOW(R	EAR)	Registration adjustment value main scanning direction YELLOW F	R side	1 - 1	99	1	00
G	CYAN(SUB)	)	Registration adjustment value sub scanning direction CYAN (Blac	k drum reference)	1 - 1	99	1	00
Н	MAGENTA(	SUB)	Registration adjustment value sub scanning direction MAGENTA (	Registration adjustment value sub scanning direction MAGENTA (Black drum reference) 1 - 199				00
ı	YELLOW(S	UB)	Registration adjustment value sub scanning direction YELLOW (B	Black drum reference)	1 - 1	99	100	
J	OFFSET_C	_F	Registration adjustment value main scanning direction offset value	1 - 99		50		
K	OFFSET_C	_R	Registration adjustment value main scanning direction offset value	e CYAN (REAR)	1 - 99		50	
L	OFFSET_M	_F	Registration adjustment value main scanning direction offset value	e MAGENTA (FRONT)	1 - 99		50	
M	OFFSET_M	_R	Registration adjustment value main scanning direction offset value MAGENTA (REAR)				50	
N	OFFSET_Y	_F	Registration adjustment value main scanning direction offset value	e YELLOW (FRONT)	1 - 99			50
0	OFFSET_Y	_R	Registration adjustment value main scanning direction offset value	e YELLOW (REAR)	1 - 99		·	50
Р	OFFSET_C	_S	Registration adjustment value sub scanning direction offset value	CYAN	1 - 9	99	49	50
Q	OFFSET_M	_S	Registration adjustment value sub scanning direction offset value	MAGENTA	1 - 9	99	49	47
R	OFFSET_Y	_S	Registration adjustment value sub scanning direction offset value	YELLOW	1 - 9	99	49	48
S	MULTICOU	NT	Number of print		1 - 9	99		1
Т	PAPER	MFT	Tray selection Manual paper feed		1 - 6	1	2 (	CS1)
		CS1	T	ray 1		2		
		CS2	T	ray 2		3		
		CS3	Ţ	ray 3		4		
		CS4	T	ray 4		5		
		LCC	<u> </u>	.CC		6		
U	DUPLEX	YES	Duplex print selection Y	⁄es	0 - 1	0	1 (	NO)
ĺ		NO		No.		1		

50-22	
Purpose	Adjustment
Function (Purpose)	Used to adjust the image registration. (Main scan direction, sub scan direction) (Auto adjustment)/OPC drum phase adjustment (Auto adjustment)
04'	

### Section

### Operation/Procedure

1) Press [EXECUTE] key.

The adjustment is automatically performed, and the adjustment data are displayed.



The contents of the following list are mainly used by the technical division, and are not necessary for the market.

Item	/Display	Content	Display	Default value	NOTE
MAIN F	С	Image registration adjustment value (Main scanning	1.0 -	100	
		direction) (Position of writing by cyan laser is F side)	199.0		
	M	Image registration adjustment value (Main scanning	1.0 -	100	
		direction) (Position of writing by magenta laser is F side)	199.0		
	Υ	Image registration adjustment value (Main scanning	1.0 -	100	
		direction) (Position of writing by yellow laser is F side)	199.0		
MAIN R	С	Image registration adjustment value (Main scanning	1.0 -	100	
		direction) (Position of writing by cyan laser is R side)	199.0		
	M	Image registration adjustment value (Main scanning	1.0 -	100	
		direction) (Position of writing by magenta laser is R side)	199.0		
	Y	Image registration adjustment value (Main scanning	1.0 -	100	
		direction) (Position of writing by yellow laser is R side)	199.0		
SUB	С	Image registration adjustment value (Sub scanning	1.0 -	100	
		direction) (Cyan drum to black drum)	199.0		
	M	Image registration adjustment value (Sub scanning	1.0 -	100	
		direction) (Magenta drum to cyan drum)	199.0		
	Y	Image registration adjustment value (Sub scanning	1.0 -	100	
		direction) (Yellow drum to magenta drum)	199.0		
SKEW	С	Calculated result of print skew amount (Cyan)	-99.9 -	-	If the value is plus, R is displayed to left side of
			99.9		numerical value. If the value is minus, L is displayed
	M	Calculated result of print skew amount (magenta)	-99.9 -	-	to left side of numerical value.
			99.9		When the value is -4 - +4, "(OK)" is place at the back
	Y	Calculated result of print skew amount (yellow)	-99.9 -	-	of the value. For the other cases, "(NG)" is displayed.
			99.9		*1
PHASE	Phase	Angle step	1 - 8	2	Same item as SIM44-31.
	adjustment	$0^{\circ}(1) \rightarrow 45^{\circ}(2) \rightarrow 90^{\circ}(3) \rightarrow 135^{\circ}(4) \rightarrow 180^{\circ}(5) \rightarrow 225^{\circ}(6)$			
	value BK	$\rightarrow 270^{\circ}(7) \rightarrow 315^{\circ}(8)$			
	→ CL				
	Phase			2	Same item as SIM44-31. (50-sheet machine)
	adjustment				
	value C				
	Phase			4	
	adjustment				
	value M			<del>-</del> -	
	Phase			5	
	adjustment value Y				
	value Y				

	Item/Display		Content	Setting range (unit)	Color/ History	Default value	NOTE
MAIN F	-	REG_M_F (VALUE)	Registration adjustment correction amount main scanning direction F	1.0 - 199.0 (±0.1)	CMY/-	100	
	()	REG_M_F (DIF)	Registration value correction amount from the previous one, main scanning F	-199.0 - 199.0 (±0.1)	CMY/-	0	
MAIN R	-	REG_M_R (VALUE)	Registration adjustment correction value, main scanning direction R	1.0 - 199.0 (±0.1)	CMY/-	100	
	()	REG_M_R (DIF)	Registration value correction amount from the previous one, main scanning R	-199.0 - 199.0 (±0.1)	CMY/-	0	
SUB	-	REG_SUB (VALUE)	Registration adjustment correction value, sub scanning direction	1.0 - 199.0 (±0.1)	CMY/-	100	
	()	REG_SUB (DIF)	Registration value correction amount from the previous one, sub scanning	-199.0 - 199.0 (±0.1)	CMY/-	0	
SKEW	СМҮ	SKEW_CLC	SKEW adjustment rotating direction and the number of clicks (CMY)	L99.9 - R99.9 (±0.1)	KCMY/-	0	If the value is plus, L is displayed to left side of numerical value. If the value is minus, R is displayed to left side of numerical value. When the value is -2.1 - +2.1, "(OK)" is place at the back of the value. For the other cases, "(NG)" is displayed. *1
	ALL_ ROTATE		SKEW adjustment rotating direction and the number of clicks (K)				If the value is plus, L is displayed to left side of numerical value. If the value is minus, R is displayed to left side of numerical value. When the value is -1.6 - +1.6, "(OK)" is place at the back of the value. For the other cases, "(NG)" is displayed. *2
PHASE	,	PHASE_ADJ	Phase adjustment value (1: Value of this time, 2: Value of the previous time) Angle step $0^{\circ}$ (1) $\rightarrow$ 45° (2) $\rightarrow$ 90° (3) $\rightarrow$ 135° (4) $\rightarrow$ 180° (5) $\rightarrow$ 225° (6) $\rightarrow$ 270° (7) $\rightarrow$ 315° (8)	1 - 8 (±1)	-/2	1	-

<sup>\*1:</sup> The color image skew adjustment is performed according to this display value.

When "R" is displayed in front of the value, turn and click the skew adjustment screw (LSU) clockwise by the value.

When "L" is displayed in front of the value, turn and click the skew adjustment screw (LSU) counterclockwise by the value.

When "R" is displayed at the head of the value, turn the skew adjustment screw (LSU) clockwise by the number of the value.

When "L" is displayed at the head of the value, turn the skew adjustment screw (LSU) counterclockwise by the number of the value.

At that time, the values under the decimal point are rounded.

### Error displays in case of abnormal end

	Error code	Error display	Error content	Description
Forcible end error	-	SUSPENDED	Door open end	Door open during operation
	-	SUSPENDED	CA end	CA button pressed during operation
	-	-	OFF end	Unconfirmed operation during operation (Power OFF)
Basic error	1	TONNER EMPTY	Toner Empty	BK or ALL Color toner EMPTY detection
	2	BEFOR BEHAVIOR	Other condition	Other condition
	4	SENSOR CALIBLATION F	Calibration error F	The target is not reached by 3 times of retry of F or R
	5	SENSOR CALIBLATION R	Calibration error R	
	6	SENSOR CALIBLATION FR	Calibration error FR	
	7	TIME OVER	Time error	No data are obtained for 90sec from data acquisition
	8	PROCESS CONTROL	Process control error	Process control error detection
Sub scanning adjustment error	10 - 47	SUB XXX XXXX XXX		
Main scanning adjustment error	50 - 88	MAIN XXX XXXX XXX		
Others	99	OTHER 99	Other errors	Other errors

<sup>\*2:</sup> The color image skew adjustment is performed according to this display value.

50-24	
Purpose	(This simulation is normally not used in the market.)
Function (Purpose)	Used to display the detail data of SIM 44-2, 50-20, 21 and 22.
Section Operation/Procedure	
Note Note	

This simulation is mainly used by the technical division, and is not necessary for the market.

50-27				
Purpose	Adjustment			
Function (Purpose)	Used to perform the image loss adjustment of scanned images in the FAX or image send mode.			
Section				

### Operation/Procedure

- Select a target adjustment mode with [FAX] or [SCANNER] key.
- Select an adjustment target item with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key. (The set value is saved.)

### [RSPF]

		Item/Display		Content	Setting range	Default value
FAX send	Α	Image loss	LEAD_EDGE (OC)	OC lead edge image loss amount setting	0 - 100	30 (3mm)
	В	amount setting OC	FRONT_REAR (OC)	OC side image loss amount setting	0 - 100	20 (2mm)
	С		TRAIL_EDGE (OC)	OC rear edge image loss amount setting	0 - 100	20 (2mm)
	D	Image loss amount setting	LEAD_EDGE (SPF_SIDE1)	Front surface lead edge image loss amount setting	0 - 100	20 (2mm)
	Е	SPF SIDE1	FRONT_REAR (SPF_SIDE1)	Front surface side image loss amount setting	0 - 100	20 (2mm)
	F		TRAIL_EDGE (SPF_SIDE1)	Front surface rear edge image loss amount setting	0 - 100	30 (3mm)
	G	Image loss amount setting	LEAD_EDGE (SPF_SIDE2)	Back surface lead edge image loss amount setting	0 - 100	20 (2mm)
	Н	SPF SIDE2	FRONT_REAR (SPF_SIDE2)	Back surface side image loss amount setting	0 - 100	20 (2mm)
	I		TRAIL_EDGE (SPF_SIDE2)	Back surface rear edge image loss amount setting	0 - 100	30 (3mm)
When image send	Α	Image loss	LEAD_EDGE (OC)	OC lead edge image loss amount setting	0 - 100	0 (0mm)
mode (Except for	В	amount setting OC	FRONT_REAR(OC)	OC side image loss amount setting	0 - 100	0 (0mm)
FAX and copy)	С		TRAIL_EDGE(OC)	OC rear edge image loss amount setting	0 - 100	0 (0mm)
	D	Image loss amount setting	LEAD_EDGE (SPF_SIDE1)	Front surface lead edge image loss amount setting	0 - 100	0 (0mm)
	Е	SPF SIDE1	FRONT_REAR (SPF_SIDE1)	Front surface side image loss amount setting	0 - 100	0 (0mm)
	F		TRAIL_EDGE(SPF_SIDE1)	Front surface rear edge image loss amount setting	0 - 100	0 (0mm)
	G	Image loss amount setting	LEAD_EDGE (SPF_SIDE2)	Back surface lead edge image loss amount setting	0 - 100	0 (0mm)
	Н	SPF SIDE2	FRONT_REAR (SPF_SIDE2)	Back surface side image loss amount setting	0 - 100	0 (0mm)
	I		TRAIL_EDGE(SPF_SIDE2)	Back surface rear edge image loss amount setting	0 - 100	0 (0mm)

A-I: When the adjustment value is increased, the image loss is increased. 1step = 0.1mm

50-28					
Purpose	Adjustment				
Function (Purpose)	Used to automatically adjust the image loss, void area, image off-center, and image magnification ratio.				
Section					

The following adjustment items can be executed automatically with SIM50-28.

- \* ADJ16 Print image position, image magnification ratio, void area, off-center adjustments (Manual adjustments)
- \* ADJ 17 Scan image magnification ratio adjustment (Manual adjustment)
- \* ADJ 18 Scan image off-center adjustment (Manual adjustment)
- \* ADJ 19 Used to adjust the copy image position and the image loss (Manual adjustments)
- 1) Select an adjustment item with the menu button.
- 2) Press [EXECUTE] key, and the adjustment pattern is printed.
- 3) Set the adjustment pattern on the document table.
- 4) Press [EXECUTE] key, and the adjustment pattern is scanned.
- 5) Press [OK] key.

Item/Display		Con	Section	
OC ADJ	MFT	Document lead	Image loss off-	Scanner
	CS1	edge	center sub scanning	
	CS2		direction image	
	ADU	Document off-	magnification ratio	
	CS3	center	adjustment	
	CS4	Sub scanning magnification ratio	(Document table mode)	
	LCC	magninication ratio	mode)	

	Item/l	Display		Con	tent	Section
SPF ADJ (RSPF)	ALL	SIDE1 (Front surface) SIDE2 (Back surface)	MFT  CS1 CS2 ADU CS3 CS4 LCC	Document lead edge  Document off-center Sub scanning magnifica- tion ratio Document lead edge Document off-center Sub scanning magnifica- tion ratio	Image loss off-center sub scanning direction image magnifica- tion ratio adjustment (RSPF mode)	Scanner

	ltem/l	Display		Co	ntent	Section
SETUP/	ALL	LEAD	MFT	Print off	Print lead	Engine
PRINT			CS1	center	edge	
ADJ			CS2	Print lead	adjustment,	
		OFFSET	ADU	edge	image off-	
			CS3		center	
			CS4		(each paper feed tray,	
			LCC		duplex	
					mode)	
					adjustment	

Ite	Item/Display		Cor	Section	
BK-I	MAG	MFT	BK main scanning	Main scanning	Engine
ADJ		CS1	magnification ratio	direction image	
		CS2		magnification ratio	
		ADU		adjustment	
		CS3			
		CS4			
		LCC			

RESULT	Adjustment result display
DATA	Adjustment operation data display

# 51

51-1					
Purpose	Adjustment/Setup				
Function (Purpose)	Used to adjust the ON/OFF timing of the secondary transport voltage.				
Section					

### Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel.
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

When the adjustment value is decreased, the transfer ON/OFF timing for the paper is advanced. When the adjustment value is increased, the timing is delayed.

When the adjustment value is changed by 1, the timing is changed by about 10ms. The setting range is -490 - +490ms.

	Item/Display	Content	Default value
Α	TC2 ON TIMING	Secondary transfer voltage ON timing setting	50
В	TC2 OFF TIMING	Secondary transfer voltage OFF timing setting	60

51-2				
Purpose	Adjustment/Setup			
Function (Purpose)	Used to adjust the contact pressure (deflection amount) on paper by the main unit and the RSPF registration roller. (This adjustment is performed when there is a considerable variation in the print image position on the paper or when paper jams frequently occur.)			

## Section

### Operation/Procedure

- (When RSPF model)
   Select a target adjustment mode with [SIDE1] or [SIDE2] or [ENGINE] keys.
- 2) Select a target item to be adjusted with scroll keys.
- 3) Enter the set value with 10-key.
- 4) Press [OK] key. (The set value is saved.)

					C-44!	40	Default value		
Mode		Display/Ite	Content		Setting range	18cpm/ 20cpm machine	23cpm machine	26cpm/ 31cpm machine	36cpm machine
SIDE1	Α	NORMAL_PLAIN_HIGH	RSPF front surface document deflection amount adjustment value (Normal/Plain paper/HIGH)	-	1 - 99	50	50	50	50
	В	NORMAL_PLAIN_LOW	RSPF front surface document deflection amount adjustment value (Normal/Plain paper/LOW)	-	1 - 99	50	50	50	50
	С	NORMAL_THIN _HIGH	RSPF front surface document deflection amount adjustment value (Normal/Thin paper/HIGH)	-	1 - 99	50	50	50	50
	D	NORMAL_THIN _LOW	RSPF front surface document deflection amount adjustment value (Normal/Thin paper/LOW)	-	1 - 99	50	50	50	50
	Е	RANDOM_PLAIN_HIGH	RSPF front surface document deflection amount adjustment value (Random/Plain paper/HIGH)	-	1 - 99	50	50	50	50
	F	RANDOM_PLAIN_LOW	RSPF front surface document deflection amount adjustment value (Random/Plain paper/LOW)	-	1 - 99	50	50	50	50
	G	RANDOM_THIN_HIGH	RSPF front surface document deflection amount adjustment value (Random/Thin paper/HIGH)	-	1 - 99	50	50	50	50
	Н	RANDOM_THIN_LOW	RSPF front surface document deflection amount adjustment value (Random/Thin paper/LOW)	-	1 - 99	50	50	50	50
SIDE2	Α	NORMAL_PLAIN_ HIGH_1	RSPF back surface document deflection amount adjustment value 1 (Normal/Plain paper/HIGH)	-	1 - 99	50	50	50	50
	В	NORMAL_PLAIN_ LOW_1	RSPF back surface document deflection amount adjustment value 1 (Normal/Plain paper/LOW)	-	1 - 99	50	50	50	50
ENGINE	Α	TRAY1(S)	Main unit cassette 1 (Upper stage)/ deflection adjustment value (Plain paper/Small size)	LT size (216mm) or less	1 - 99	30	30	30	30
	В	TRAY1(L)	Main unit cassette 1 (Upper stage)/ deflection adjustment value (Plain paper/Large size)	LT size (216mm) or above	1 - 99	30	30	30	30
	С	TRAY1 HEAVY PAPER (S)	Main unit cassette 1 (Upper stage)/ deflection adjustment value (Heavy paper/Small size)	LT size (216mm) or less	1 - 99	40	10	10	2
	D	TRAY1 HEAVY PAPER (L)	Main unit cassette 1 (Upper stage)/ deflection adjustment value (Heavy paper/Large size)	LT size (216mm) or above	1 - 99	40	10	10	2
	Е	TRAY2(S)	Main unit cassette 2 (Lower stage)/ deflection adjustment value (Plain paper/Small size)	LT size (216mm) or less	1 - 99	30	30	30	30
	F	TRAY2(L)	Main unit cassette 2 (Lower stage)/ deflection adjustment value (Plain paper/Large size)	LT size (216mm) or above	1 - 99	30	30	30	30
	G	TRAY2 HEAVY PAPER (S)	Main unit cassette 2 (Upper stage)/ deflection adjustment value (Heavy paper/Small size)	LT size (216mm) or less	1 - 99	40	10	10	2
	Н	TRAY2 HEAVY PAPER (L)	Main unit cassette 2 (Upper stage)/ deflection adjustment value (Heavy paper/Large size)	LT size (216mm) or above	1 - 99	40	10	10	2
	I	MANUAL PLAIN PAPER (S)	Manual feed tray/deflection adjustment value (Plain paper/Small size)	LT size (216mm) or less	1 - 99	30	30	30	30
	J	MANUAL PLAIN PAPER (L)	Manual feed tray/deflection adjustment value (Plain paper/Large size)	LT size (216mm) or above	1 - 99	30	30	30	30
	K	MANUAL HEAVY PAPER (S)	Manual feed tray/deflection adjustment value (Heavy paper/Small size)	LT size (216mm) or less	1 - 99	40	10	10	2
	L	MANUAL HEAVY PAPER (L)	Manual feed tray/deflection adjustment value (Heavy paper/Large size)	LT size (216mm) or above	1 - 99	40	10	10	2
	М	MANUAL OHP	Manual feed tray/deflection	-	1 - 99	40	10	10	2
	N	MANUAL ENV	adjustment value (OHP)  Manual feed tray/deflection adjustment value (Envelope)	-	1 - 99	40	10	10	2
	0	ADU PLAIN PAPER (S)	ADU/deflection adjustment value (Plain paper/Small size)	LT size (216mm) or less	1 - 99	30	30	30	30

							Default value			
Mode	Display/Ite		Content		Setting range	18cpm/ 20cpm machine	23cpm machine	26cpm/ 31cpm machine	36cpm machine	
ENGINE	Р	ADU PLAIN PAPER (L)	ADU/deflection adjustment value (Plain paper/Large size)	LT size (216mm) or above	1 - 99	30	30	30	30	
	Q	ADU HEAVY PAPER (S)	ADU/deflection adjustment value (Heavy paper/Small size)	LT size (216mm) or less	1 - 99	40	10	10	2	
	R	ADU HEAVY PAPER (L)	ADU/deflection adjustment value (Heavy paper/Large size)	LT size (216mm) or above	1 - 99	40	10	10	2	
	S	DESK (S)	DESK/deflection adjustment value (Plain paper/Small size)	LT size (216mm) or less	1 - 99	30	30	30	30	
	Т	DESK (L)	DESK/deflection adjustment value (Plain paper/Large size)	LT size (216mm) or above	1 - 99	30	30	30	30	
	U	DESK HEAVY PAPER (S)	DESK/deflection adjustment value (Heavy paper/Small size)	LT size (216mm) or less	1 - 99	40	10	10	2	
	V	DESK HEAVY PAPER (L)	DESK/deflection adjustment value (Heavy paper/Large size)	LT size (216mm) or above	1 - 99	40	10	10	2	
	W	A4LCC	A4LCC/deflection adjustment value	-	1 - 99	30	30	30	30	

### Note on "Large size" and "Small size"

Small size: The paper length in the transport direction is shorter than the LT size (216mm).

Large size: The paper length in the transport direction is longer than the LT size (216mm).

#### Adjustment value

When the adjustment value is increased, the warp amount is increased. When the adjustment value is decreased, the warp amount is decreased.

(When the adjustment value is changed by 1, the stop timing is changed by 0.1mm.)



53-6				
Purpose	Adjustment			
Function (Purpose)	Used to adjust the detection level of the RSPF document width.			
Section				

### Operation/Procedure

- 1) Open the RSPF paper feed guide to the maximum width.
- 2) Press [EXECUTE] key.

The maximum width detection level is recognized.

- 3) Open the RSPF paper feed guide to the A4R width.
- 4) Press [EXECUTE] key.

The A4R width detection level is recognized.

- 5) Open the RSPF paper feed guide to the A5R width.
- 6) Press [EXECUTE] key.

The A5R width detection level is recognized.

- 7) Open the RSPF paper feed guide to the minimum width.
- 8) Press [EXECUTE] key.

The minimum width detection level is recognized.

When the above operation is nor performed normally, "ERROR" is displayed and. When the above operation is completed normally, "COMPLETE" is displayed.

I	1	TRAYVOLMAX	Tray size volume maximum value
	2	TRAYVOLA4R	Tray volume A4R size adjustment value
Ī	3	TRAYVOLA5R	Tray volume A5R size adjustment value
Ī	4	TRAYVOLMIN	Tray size volume minimum value

53-7					
Purpose	Adjustment/Setup				
Function (Purpose)	Used to adjust the RSPF document size width sensor.				
Section					

### Operation/Procedure

- Select an adjustment target item with scroll key on the touch panel
- 2) Enter the set value with 10-key.
- 3) Press [OK] key. (The set value is saved.)

### [RSPF]

		Setting range	Default value	
Α	AD_MAX	Max. width position	0 - 1023	84
В	AD_P1	A4R width position	0 - 1023	509
С	AD_P2	A5R width position	0 - 1023	808
D	AD MIN	Min. width position	0 - 1023	961

53-8	
Purpose	Adjustment
Function (Purpose)	Used to adjust the document lead edge reference and the RSPF mode document scan position.
Section	

Select an adjustment item with [AUTO] [MANUAL] key.

<AUTO: Document lead edge reference (RRCA) adjustment>(Auto adjustment)

- 1) Set a sheet of black paper of A4 or 11"x 8.5" on the document table.
- 2) Press [EXECUTE] key. (The adjustment is performed and the adjustment value is saved.)

Item/Display	Content	Setting range	Default value
MEASUREMENT	Document lead edge	0-255	-
DISTANCE	measurement distance	(0.1mm unit)	
RRCA	Document lead edge	0 - 99	50
	reference position		

<MANUAL: RSPF mode document scan position adjustment>

- 1) Enter the set value with 10-key.
- 2) Press [OK] key. (The set value is saved.)

Item/Display		Content	Setting range	Default value
Α	ADJUST VALUE	RSPF mode document scan position adjustment (Scanner stop position adjustment)	1 - 99	5

- When the adjustment value is increased, the scanner stop position in the RSPF mode is shifted to the right.
- When the adjustment value is changed by 1, the position is shifted by 0.1mm.



55-1	
Purpose	(Do not use this function unless specially required.)
Function (Purpose)	Used to set the specifications of the engine control operations. (SOFT SW)
Section	

### Operation/Procedure

Operation/Procedure

55-2	
Purpose	(Do not use this function unless specially required.)
Function (Purpose)	Used to set the specifications of the scanner control operation. (SOFT SW)
Section	

55-3	
Purpose	(Do not use this function unless specially required.)
Function (Purpose)	Used to set the specifications of the controller operation. (SOFT SW)
Section	

55-10	
Purpose	Adjustment/Setting
Function (Purpose)	Used to set the special stamp text. (Taiwar only)
Section	-

### Operation/Procedure

Operation/Procedure

- 1) Select an item to be set (digit, color, type) with the scroll key.
- 2) Enter the value corresponding to the setting item with 10-key.
- 3) Press [OK] key.

			1		1	
	Item/Di	splay	Co	ntent	Setting	Default
	· ·				range	value
Α	1ST DIG			(left edge)	1 - 90	1
В	2ND DIG		Second d			
С	3RD DIG	IT	Third digit		32 [blank: 20H]	
D	O 4TH DIGIT		Fourth dig	git	65 - 90 [Alphabet: 41H("A) - 5AH("Z")]	
E	E 5TH DIGIT		Fifth digit		48 - 57 [Numeral: 30H("0") - 39H("9")]	
F	6TH DIGIT		Sixth digiredge)	t (right		
G	COLOR	K	Color spe	cification	0	0
		С	input		1	
		M			2	
		Υ			3	
		R			4	
		G			5	
		В			6	
Н	TYPE	PATTERN 1	Print com-	Edging type	0	1
		PATTERN	posing	OR	1	
		2	method	process type		
		PATTERN 3		No- delete- compo- sition type	2	

### Input value

Blank	Α	В	С	Е	F	G
32	65	66	67	69	70	71
Н	- 1	J	K	L	М	N
72	73	74	75	76	77	78
0	Р	Q	R	T	U	V
79	80	81	82	84	85	86
W	Х	Y	Z	0	1	2
87	88	89	90	48	49	50
3	5	6	7	8	9	
51	53	54	55	56	57	
	32 H 72 O 79 W 87	32 65  H I 72 73  O P 79 80  W X 87 88	32 65 66  H I J 72 73 74  O P Q 79 80 81  W X Y 87 88 89  3 5 6	32 65 66 67  H I J K 72 73 74 75  O P Q R 79 80 81 82  W X Y Z 87 88 89 90  3 5 6 7	32 65 66 67 69  H I J K L 72 73 74 75 76  O P Q R T 79 80 81 82 84  W X Y Z 0 87 88 89 90 48  3 5 6 7 8	32 65 66 67 69 70  H I J K L M 72 73 74 75 76 77  O P Q R T U 79 80 81 82 84 85  W X Y Z 0 1 87 88 89 90 48 49  3 5 6 7 8 9



56-1	
Purpose	Backup
Function (Purpose)	Used to transport data between HDD - MFP PWB SRAM/EEPROM. (Used to repair the PWB.)
Continu	

# Section Operation/Procedure

- 1) Select a target content of data transfer.
- 2) Press [EXECUTE] key and press [YES] key. Data transfer of the item selected in procedure 1) is executed. When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

$EEPROM \to HDD$	Transfer from EEPROM to HDD
$HDD \to EEPROM$	Transfer from HDD to EEPROM

56-2	
Purpose	Data backup
Function (Purpose)	Used to backup the data in the EEPROM SD Card, and HDD (including user authentication data and address data) to the USE memory. (Corresponding to the device cloning and the storage backup.)

#### Operation/Procedure

Section

- 1) Insert the USB memory into the main unit.
- Select a target transfer item with the touch panel.

From USB MEMORY DEVICE To EEPROM, SD Card HDD <EXPORT>

From EEPROM, SD Card, HDD To USB MEMORY

3) Press [EXECUTE] key, and press [YES] key. Data transfer selected in the procedure 2) is performed When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

(Machine with the DSK installed)

- 1) Insert the USB memory into the main unit.
- Select a target transfer item with the touch panel.
   IMPORT>

From USB MEMORY DEVICE to EEPROM, SD Card HDD <EXPORT>

From EEPROM, SD Card, HDD to USB MEMORY DEVICE

- 3) Enter the password with 10-key.
- 4) Press [SET] key.
- 5) Press [EXECUTE] key, and press [YES] key. Data transfer selected in the procedure 2) is performed. When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

<Data list outside the backup targets>

(EEPROM/SD Card)

PWB Type	Content	NOTE
Controller	Machine serial No.	
	Product key information	
	Various counter	Copy counter/FAX send counter etc.
	Trouble history	

PWB Type	Content	NOTE
PCU	Machine serial No.	
	Various counter	Maintenance counter
	Machine adjustment execute	
	history	
	Trouble history	
SCU	Various counter	Maintenance counter
	Trouble history	

### (HDD)

Classifi- cation	Content	NOTE
Japanese FEP	User dictionary	
Job end list	Job end list display data (The image send series include the preserved job list.)	
Log	Job log	Read from WEB is enable.
New N/A	Print history information JAM history information Trouble history information Same position continuous jam count value Charging information Life information	
Operation manual	E-manual	

56-3	
Purpose	Data backup
Function (Purpose)	Used to backup the document filing data to the USB memory.
Section	

### Operation/Procedure

- 1) Insert the USB memory into the main unit.
- Select a target transfer item with the touch panel.
   <IMPORT>

From USB MEMORY DEVICE to EEPROM, SD Card, HDD <EXPORT>

From EEPROM, SD Card, HDD to USB MEMORY DEVICE

3) Press [EXECUTE] key, and press [YES] key.

Data transfer selected in the procedure 2) is performed. When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

56-4	
Purpose	Data backup
Function (Purpose)	Used to backup the JOB log data to the USB memory.
Section	

#### Operation/Procedure

- 1) Insert the USB memory into the main unit.
- 2) Press [JOB LOG EXPORT] key.
- 3) Press [EXECUTE] key, and press [YES] key. Data transfer selected in the procedure 2) is performed. When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

56-5	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to import the SIM22-6 data to a USB
	memory in the TEXT format.
Section	

- 1) Insert the USB memory into the main unit.
- 2) Select a kind of data to be imported.
- 3) Press [EXECUTE] key, and press [YES] key.

Procedure 2) The selected data are imported.

When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

56-11	
Purpose	Data copy
Function (Purpose)	Used co copy the SD Card data to an option HDD.
Section	MFP PWB/HDD
O	

#### Operation/Procedure

- 1) Install an option HDD.
- Press [EXECUTE] key, and press [YES] key.
   The SD Card data are copied to the option HDD.

When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

## Note

This simulation functions only for the 18cpm/20cpm model without HDD.

Result display	Description
COMPLETE	Normal completion
ERROR (HDD ACCESS ERROR)	HDD access disable
ERROR (LOW LEVEL BLOCK WRITE ERROR)	Write error
ERROR (LOW LEVEL BLOCK READ ERROR)	Read error
ERROR (NO DATA ADJUSTMENT)	Data discrepancy between the SD Card and the HDD
TROUBLE (U2-42)	U2-42 occurrence

56-12	
Purpose	Data copy
Function (Purpose)	Used co copy the SD Card data to all option HDD.
Section	MFP PWB/HDD

### Operation/Procedure

- 1) Install the accessory SD Card (4GB) to the option HDD kit.
- 2) Press [EXECUTE] key, and press [YES] key.

The data which were copied to the HDD with SIM56-11 are copied to the SD Card (4GB).

When the operation is completed normally, "COMPLETE" is displayed. In case of an abnormal end, "ERROR" is displayed.

### Note

This simulation functions only for the 18 cpm/20 cpm model with HDD installed.

Result display	Description
COMPLETE	Normal completion
NO DATA	There are no copy data of the SD Card in the HDD.
ERROR (EXPORT DATA ILLEGAL)	SD Card data error in the HDD
ERROR (LOW LEVEL BLOCK READ ERROR)	Read error
ERROR (NO DATA ADJUSTMENT)	Data discrepancy between the SD Card and the HDD
ERROR (SD ACCESS ERROR)	SD Card access error

# 60

60-1					
Purpose	Purpose Operation test/check				
Function (Purpose)	Used to check the memory operations (read/write) of the MFP PWB.				
Section	-				

### Operation/Procedure

 Press [EXECUTE] key. Start the test.

Result display	Description	
OK	Success	
NG	Fail	
NONE	Not installed (Including DIMM trouble)	
INVALID	Execution disable	

SLOT	Description	
ICU SLOT-1	ICU standard memory	DIMM1
ICU SLOT-2	ICU expansion memory	DIMM2
PCL SLOT-1	Printer standard memory	DIMM3
PCL SLOT-2	Printer expansion memory	DIMM4
ACRE SLOT	Enhanced compression kit memory	-



61-1	
Purpose	Operation test/check
Function (Purpose)	Used to check the LSU polygon motor rotation and laser detection.
Section	LSU

### Operation/Procedure

1) Press [EXECUTE] key.

When the operation is completed normally, [OK] is displayed. In case of an abnormal end, [NG] is displayed.

Display	Content		
LSU TESTRESULT NG: PG	Polygon mirror rotation abnormality		
LSU TESTRESULT NG: K	Laser abnormality (K)		
LSU TESTRESULT NG: CL	Laser light emitting abnormality (C,M,Y)		

61-3	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the laser power
Section	

- 1) Select a target mode for adjustment with [COPY], [PR600/FAX] on the touch panel.
- 2) Select an adjustment target item with scroll key on the touch panel.
- 3) Enter the adjustment value using the 10-key.
- 4) Press [OK] key. (The set value is saved.) When the laser power and the DUTY adjustment value are increased, the print density is increased and the line width of line images are increased.

### 18cpm/20cpm machine

Mode		Item/Display	Content	Setting range	Default value	Destination linkage
COPY	Α	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	110	×
	В	LASER POWER MIDDLE (K2)	Used to set the laser power (Middle speed/K2)	0 - 255	110	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	110	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	110	×
	Ε	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	110	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	110	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	110	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	110	×
	I	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	141	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	141	×
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	141	×
	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	141	×
	М	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	141	×
	N	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2)	0 - 255	141	×
	0	LASER POWER LOW (Y1)	Used to set the laser power (Low speed/Y1)	0 - 255	141	×
	Р	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255	141	×
	Q	LASER POWER MIDDLE (BW1)	Used to set the laser power (Middle speed/BW1)	0 - 255	110	×
	R	LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW2)	0 - 255	110	×
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	141	×
	T	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	141	×
	U	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0
	V	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0
	W	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0
	X	LASER DUTY MIDDLE (W)	Laser DUTY select middle speed (W)	0 - 255	0	0
	Y	. ,	Laser DUTY select low speed (K)	0 - 255	0	0
		LASER DUTY LOW (K)			0	0
	Z AA	LASER DUTY LOW (M)	Laser DUTY select low speed (C)	0 - 255 0 - 255	0	0
		LASER DUTY LOW (M)	Laser DUTY select low speed (M)			
	AB	LASER DUTY LOW (Y)	Laser DUTY select low speed (Y)	0 - 255	0	0
	AC	LASER DUTY MIDDLE(BW)	Laser DUTY select middle speed (BW)	0 - 255	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select low speed (BW)	0 - 255	0	0
	AE	LASER DUTY MIDDLE (K 1BIT)	Laser DUTY select middle speed (K)*1	0 - 255	0	0
	AF	LASER DUTY MIDDLE (C 1BIT)	Laser DUTY select middle speed (C)*1	0 - 255	0	0
	AG	LASER DUTY MIDDLE (M 1BIT)	Laser DUTY select middle speed (M)*1	0 - 255	0	0
	AH	LASER DUTY MIDDLE (Y 1BIT)	Laser DUTY select middle speed (Y)*1	0 - 255	0	0
	Al	LASER DUTY LOW (K 1BIT)	Laser DUTY select low speed (K)*1	0 - 255	0	0
	AJ	LASER DUTY LOW (C 1BIT)	Laser DUTY select low speed (C)*1	0 - 255	0	0
	AK	LASER DUTY LOW (M 1BIT)	Laser DUTY select low speed (M)*1	0 - 255	0	0
	AL	LASER DUTY LOW (Y 1BIT)	Laser DUTY select low speed (Y)*1	0 - 255	0	0
	AM	LASER DUTY MIDDLE (BW 1BIT)	Laser DUTY select middle speed (BW)*1	0 - 255	0	0
	AN	LASER DUTY LOW (BW 1BIT)	Laser DUTY select low speed (BW)	0 - 255	0	0
PR600/FAX	Α	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	110	×
	В	LASER POWER MIDDLE (K2)	Used to set the laser power (Middle speed/K2)	0 - 255	110	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	110	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	110	×
	Е	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	110	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	110	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	110	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	110	×
	ı	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	141	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	141	×
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	141	×

Mode		Item/Display	Content	Setting range	Default value	Destination linkage
PR600/FAX	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	141	×
	М	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	141	×
	N	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2)	0 - 255	141	×
	0	LASER POWER LOW (Y1)	Used to set the laser power (Low speed/Y1)	0 - 255	141	×
	Р	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255	141	×
	Q	LASER POWER MIDDLE (BW1)	Used to set the laser power (Middle speed/BW1)	0 - 255	110	×
	R	LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW2)	0 - 255	110	×
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	141	×
	Т	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	141	×
	U	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0
	V	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0
	W	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0
	Χ	LASER DUTY MIDDLE (Y)	Laser DUTY select middle speed (Y)	0 - 255	0	0
	Υ	LASER DUTY LOW (K)	Laser DUTY select low speed (K)	0 - 255	0	0
	Z	LASER DUTY LOW (C)	Laser DUTY select low speed (C)	0 - 255	0	0
	AA	LASER DUTY LOW (M)	Laser DUTY select low speed (M)	0 - 255	0	0
	AB	LASER DUTY LOW (Y)	Laser DUTY select low speed (Y)	0 - 255	0	0
	AC	LASER DUTY MIDDLE (BW)	Laser DUTY select middle speed (BW)	0 - 255	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select low speed (BW)	0 - 255	0	0
	ΑE	LASER DUTY MIDDLE (K 1BIT)	Laser DUTY select middle speed (K)	0 - 255	0	0
	AF	LASER DUTY MIDDLE (C 1BIT)	Laser DUTY select middle speed (C)	0 - 255	0	0
	AG	LASER DUTY MIDDLE (M 1BIT)	Laser DUTY select middle speed (M)	0 - 255	0	0
	AH	LASER DUTY MIDDLE (Y 1BIT)	Laser DUTY select middle speed (Y)	0 - 255	0	0
	Al	LASER DUTY LOW (K 1BIT)	Laser DUTY select low speed (K)	0 - 255	0	0
	AJ	LASER DUTY LOW (C 1BIT)	Laser DUTY select low speed (C)	0 - 255	0	0
	AK	LASER DUTY LOW (M 1BIT)	Laser DUTY select low speed (M)	0 - 255	0	0
	AL	LASER DUTY LOW (Y 1BIT)	Laser DUTY select low speed (Y)	0 - 255	0	0
	AM	LASER DUTY MIDDLE (BW 1BIT)	Laser DUTY select middle speed (BW)	0 - 255	0	0
	AN	LASER DUTY LOW (BW 1BIT)	Laser DUTY select low speed (BW)	0 - 255	0	0

### 23cpm/31cpm(G) machine

Mode				Setting	Default value		Destination
		Item/Display	Content	range	23cpm machine	31cpm(G) machine	linkage
COPY	Α	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	110	148	×
	В	LASER POWER MIDDLE (K2)	Used to set the laser power (Middle speed/K2)	0 - 255	110	148	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	110	148	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	110	148	×
	Е	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	110	148	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	110	148	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	110	148	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	110	148	×
	I	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	141	141	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	141	141	×
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	141	141	×
	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	141	141	×
	М	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	141	141	×
	N	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2)	0 - 255	141	141	×
	0	LASER POWER LOW (Y1)	Used to set the laser power (Low speed/Y1)	0 - 255	141	141	×
	Р	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255	141	141	×
	Q	LASER POWER MIDDLE (BW1)	Used to set the laser power (Middle speed/BW1)	0 - 255	110	148	×
	R	LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW2)	0 - 255	110	148	×
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	141	141	×
	Т	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	141	141	×
	U	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0	0
	V	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	W	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0	0
	Χ	LASER DUTY MIDDLE (Y)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Υ	LASER DUTY LOW (K)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	Z	LASER DUTY LOW (C)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AA	LASER DUTY LOW (M)	Laser DUTY select low speed (M)	0 - 255	0	0	0
	AB	LASER DUTY LOW (Y)	Laser DUTY select low speed (Y)	0 - 255	0	0	0
	AC	LASER DUTY MIDDLE(BW)	Laser DUTY select middle speed (BW)	0 - 255	0	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select low speed (BW)	0 - 255	0	0	0

					Default value		Destination
Mode		Item/Display	Content	Setting range	23cpm machine	31cpm(G) machine	linkage
PR600/FAX	Α	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	110	148	×
	В	LASER POWER MIDDLE (K2)	Used to set the laser power (Middle speed/K2)	0 - 255	110	148	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	110	148	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	110	148	×
	Е	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	110	148	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	110	148	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	110	148	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	110	148	×
	ı	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	141	141	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	141	141	×
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	141	141	×
	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	141	141	×
	М	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	141	141	×
	N	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2)	0 - 255	141	141	×
	0	LASER POWER LOW (Y1)	Used to set the laser power (Low speed/Y1)	0 - 255	141	141	×
	Р	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255	141	141	×
	Q	LASER POWER MIDDLE (BW1)	Used to set the laser power (Middle speed/BW1)	0 - 255	110	148	×
	R	LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW2)	0 - 255	110	148	×
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	141	141	×
	Т	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	141	141	×
	U	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0	0
	٧	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	W	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0	0
	Х	LASER DUTY MIDDLE (Y)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Υ	LASER DUTY LOW (K)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	Z	LASER DUTY LOW (C)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AA	LASER DUTY LOW (M)	Laser DUTY select low speed (M)	0 - 255	0	0	0
	AB	LASER DUTY LOW (Y)	Laser DUTY select low speed (Y)	0 - 255	0	0	0
	AC	LASER DUTY MIDDLE (BW)	Laser DUTY select middle speed (BW)	0 - 255	0	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select low speed (BW)	0 - 255	0	0	0
	ΑE	LASER DUTY MIDDLE (K 1BIT)	Laser DUTY select middle speed (K)	0 - 255	0	0	0
	AF	LASER DUTY MIDDLE (C 1BIT)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	AG	LASER DUTY MIDDLE (M 1BIT)	Laser DUTY select middle speed (M)	0 - 255	0	0	0
	AH	LASER DUTY MIDDLE (Y 1BIT)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Al	LASER DUTY LOW (K 1BIT)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	AJ	LASER DUTY LOW (C 1BIT)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AK	LASER DUTY LOW (M 1BIT)	Laser DUTY select low speed (M)	0 - 255	0	0	0
	AL	LASER DUTY LOW (Y 1BIT)	Laser DUTY select low speed (Y)	0 - 255	0	0	0
	AM	LASER DUTY MIDDLE (BW 1BIT)	Laser DUTY select middle speed (BW)	0 - 255	0	0	0
	AN	LASER DUTY LOW (BW 1BIT)	Laser DUTY select low speed (BW)	0 - 255	0	0	0

### 26cpm/36cpm/31cpm(A) machine

					Default value		
Mode		Item/Display	Content	Setting range	26cpm/ 31cpm(A) machine	36cpm machine	Destination linkage
COPY	Α	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	128	151	×
	В	LASER POWER MIDDLE (K2)	Used to set the laser power (Middle speed/K2)	0 - 255	128	151	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	128	151	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	128	151	×
	Е	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	128	151	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	128	151	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	128	151	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	128	151	×
	I	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	128	151	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	128	151	×
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	128	151	×
	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	128	151	×
	M	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	128	151	×
	N	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2)	0 - 255	128	151	×
	0	LASER POWER LOW (Y1)	Used to set the laser power (Low speed/Y1)	0 - 255	128	151	×
	Р	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255	128	151	×
	Q	LASER POWER MIDDLE (BW1)	Used to set the laser power (Middle speed/BW1)	0 - 255	128	151	×
	R	LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW2)	0 - 255	128	151	×
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	128	151	×
	Т	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	128	151	×
	U	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0	0
	V	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	W	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0	0

					Default value		
Mode	Item/Display		Content	Setting range	26cpm/ 31cpm(A) machine	36cpm machine	Destination linkage
COPY	Х	LASER DUTY MIDDLE (Y)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Y	LASER DUTY LOW (K)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	Z	LASER DUTY LOW (C)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AA	LASER DUTY LOW (M)	Laser DUTY select low speed (M)	0 - 255	0	0	0
	AB AC	LASER DUTY LOW (Y)  LASER DUTY MIDDLE(BW)	Laser DUTY select low speed (Y)  Laser DUTY select middle speed (BW)	0 - 255 0 - 255	0	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select Initiale speed (BW)	0 - 255	0	0	0
PR600/FAX	A	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	128	151	X
	В	LASER POWER MIDDLE (K2)	Used to set the laser power (Middle speed/K2)	0 - 255	128	151	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	128	151	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	128	151	×
	Е	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	128	151	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	128	151	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	128	151	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	128	151	×
	I	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	128	151	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	128	151	×
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	128	151	×
	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	128	151	X
	M	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	128	151	X
	N O	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2) Used to set the laser power (Low speed/Y1)	0 - 255	128 128	151	×
	P	LASER POWER LOW (Y1)		0 - 255		151	X
	Q	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255 0 - 255	128 128	151 151	×
	R	LASER POWER MIDDLE (BW1)  LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW1) Used to set the laser power (Middle speed/BW2)	0 - 255	128	151	×
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	128	151	×
	T	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	128	151	×
	Ü	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0	0
	V	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	w	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0	0
	X	LASER DUTY MIDDLE (Y)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Υ	LASER DUTY LOW (K)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	Z	LASER DUTY LOW (C)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AA	LASER DUTY LOW (M)	Laser DUTY select low speed (M)	0 - 255	0	0	0
	AB	LASER DUTY LOW (Y)	Laser DUTY select low speed (Y)	0 - 255	0	0	0
	AC	LASER DUTY MIDDLE (BW)	Laser DUTY select middle speed (BW)	0 - 255	0	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select low speed (BW)	0 - 255	0	0	0
	AE	LASER DUTY MIDDLE (K 1BIT)	Laser DUTY select middle speed (K)	0 - 255	0	0	0
	AF	LASER DUTY MIDDLE (C 1BIT)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	AG	LASER DUTY MIDDLE (M 1BIT)	Laser DUTY select middle speed (M)	0 - 255	0	0	0
	AH	LASER DUTY MIDDLE (Y 1BIT)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Al	LASER DUTY LOW (K 1BIT)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	AJ	LASER DUTY LOW (C 1BIT)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AK	LASER DUTY LOW (M 1BIT)	Laser DUTY select low speed (M)  Laser DUTY select low speed (Y)	0 - 255	0	0	0
	AL	LASER DUTY LOW (Y 1BIT)	1 ( )	0 - 255	0	0	0
	AM AN	LASER DUTY MIDDLE (BW 1BIT)  LASER DUTY LOW (BW 1BIT)	Laser DUTY select middle speed (BW)  Laser DUTY select low speed (BW)	0 - 255 0 - 255	0	0	0
PR1200	AN	LASER DOTY LOW (BW 1811)  LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K1)	0 - 255	128	151	×
. 131200	В	LASER POWER MIDDLE (K1)	Used to set the laser power (Middle speed/K2)	0 - 255	128	151	×
	С	LASER POWER MIDDLE (C1)	Used to set the laser power (Middle speed/C1)	0 - 255	128	151	×
	D	LASER POWER MIDDLE (C2)	Used to set the laser power (Middle speed/C2)	0 - 255	128	151	×
	E	LASER POWER MIDDLE (M1)	Used to set the laser power (Middle speed/M1)	0 - 255	128	151	×
	F	LASER POWER MIDDLE (M2)	Used to set the laser power (Middle speed/M2)	0 - 255	128	151	×
	G	LASER POWER MIDDLE (Y1)	Used to set the laser power (Middle speed/Y1)	0 - 255	128	151	×
	Н	LASER POWER MIDDLE (Y2)	Used to set the laser power (Middle speed/Y2)	0 - 255	128	151	×
	I	LASER POWER LOW (K1)	Used to set the laser power (Low speed/K1)	0 - 255	128	151	×
	J	LASER POWER LOW (K2)	Used to set the laser power (Low speed/K2)	0 - 255	128	151	X
	K	LASER POWER LOW (C1)	Used to set the laser power (Low speed/C1)	0 - 255	128	151	×
	L	LASER POWER LOW (C2)	Used to set the laser power (Low speed/C2)	0 - 255	128	151	×
	М	LASER POWER LOW (M1)	Used to set the laser power (Low speed/M1)	0 - 255	128	151	×
	N	LASER POWER LOW (M2)	Used to set the laser power (Low speed/M2)	0 - 255	128	151	×
	0	LASER POWER LOW (Y1)	Used to set the laser power (Low speed/Y1)	0 - 255	128	151	×
	P	LASER POWER LOW (Y2)	Used to set the laser power (Low speed/Y2)	0 - 255	128	151	X
	Q	LASER POWER MIDDLE (BW1)	Used to set the laser power (Middle speed/BW1)	0 - 255	128	151	X
	R	LASER POWER MIDDLE (BW2)	Used to set the laser power (Middle speed/BW2)	0 - 255	128	151	X
	S	LASER POWER LOW (BW1)	Used to set the laser power (Low speed/BW1)	0 - 255	128	151	X
	T	LASER POWER LOW (BW2)	Used to set the laser power (Low speed/BW2)	0 - 255	128	151	×
	U	LASER DUTY MIDDLE (K)	Laser DUTY select middle speed (K)	0 - 255	0	0	0

					Defaul	t value	
Mode	ltem/Display		Content	Setting range	26cpm/ 31cpm(A) machine	36cpm machine	Destination linkage
PR1200	V	LASER DUTY MIDDLE (C)	Laser DUTY select middle speed (C)	0 - 255	0	0	0
	W	LASER DUTY MIDDLE (M)	Laser DUTY select middle speed (M)	0 - 255	0	0	0
	Χ	LASER DUTY MIDDLE (Y)	Laser DUTY select middle speed (Y)	0 - 255	0	0	0
	Υ	LASER DUTY LOW (K)	Laser DUTY select low speed (K)	0 - 255	0	0	0
	Z	LASER DUTY LOW (C)	Laser DUTY select low speed (C)	0 - 255	0	0	0
	AA	LASER DUTY LOW (M)	Laser DUTY select low speed (M)	0 - 255	0	0	0
	AB	LASER DUTY LOW (Y)	Laser DUTY select low speed (Y)	0 - 255	0	0	0
	AC	LASER DUTY MIDDLE(BW)	Laser DUTY select middle speed (BW)	0 - 255	0	0	0
	AD	LASER DUTY LOW (BW)	Laser DUTY select low speed (BW)	0 - 255	0	0	0

61-4	
Purpose	Adjustment
Function (Purpose)	Used to print the print image skew adjustment pattern. (LSU unit)
Section	

- 1) Select a target item with scroll key on the touch panel.
- 2) Enter the print conditions setting value with 10-key.
- 3) Press [EXECUTE] key.

The print image skew adjustment pattern is printed.

ltem/Display				Content		Default value
Α	MULTICO	TNUC	Print quan	Print quantity (1-999)		1
В	PAPER	MFT	Tray	1	Manual paper feed	2
		CS1	selection	2	Paper feed tray 1	(Paper
		CS2		3	Paper feed tray 2	feed tray
		CS3		4	Paper feed tray 3	1)
		CS4		5	Paper feed tray 4	
		LCC		6	LCC	

# **62**

62-1	
Purpose	Data clear
Function (Purpose)	Used to format the hard disk/SD Card. (HDD: Excluding the Operation manual and the watermark data) (SD Card: User data)
Section	

### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

Used to execute the HDD/SD Card format.

When the operation is completed, [EXECUTE] key returns to the normal display.

62-2	
Purpose	Operation test/check
Function (Purpose)	Used to check read/write of the hard disk (partial).
Section	

### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

62-3	
Purpose	Operation test/check
Function (Purpose)	Used to check read/write of the hard disk (all areas).
Section	(all areas).

### Operation/Procedure

- 1) Press [EXECUTE] key.
- Press [YES] key.

Read/write operations are performed.

62-6	
Purpose	Operation test/check
Function (Purpose)	Used to perform the self diagnostics of the hard disk.
Section	

### Operation/Procedure

- 1) Select the self diag area.
- Press [EXECUTE] key.
   The self diag operation is performed.

# Note

E7-03 error occurs. If there may be a trouble in the HDD, use this simulation to cheek the HDD.

SHORT S.T	Partial area diag
EXTENDED S.T	All area diag

When the operation is completed, [EXECUTE] key returns to the normal display.

Normal completion  $\rightarrow$  "OK (RESULT:0)" is displayed.

Abnormal end  $\rightarrow$  "NG (RESULT: Other than 0)" is displayed.

 If the simulation cannot be executed or terminated abnormally for some reason, "ERROR" is displayed on the corresponding section.

62-7	
Purpose	Operation test/check
Function (Purpose)	Used to print the hard disk self diagnostics
	error log.
Section	

### Operation/Procedure

1) Press [EXECUTE] key.

ERROR LOG SECTOR of the SMART function is executed, and the result is printed.

When the operation is completed, [EXECUTE] key returns to the normal display.

62-8 Purpose Data clear Function (Purpose) Used to format the hard disk/SD Card. (HDD: Excluding the Operation Manual, the watermark data, and the system area) (SD Card: User data) Section

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

Used to execute the hard disk format.

When the operation is completed, [EXECUTE] key returns to the normal display.

\* When the HDD formatting (except for the system area) is not completed normally, "HDD FORMAT (EXCEPT SYSTEM AREA) NG" is displayed.

62-10	
Purpose	Data clear
Function (Purpose)	Used to clear the job completion list data.
Section	-

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- Press [YES] key.

Used to delete the job log data.

When the operation is completed, [EXECUTE] key returns to the normal display.

62-11	
Purpose	Data clear
Function (Purpose)	Used to delete the document filing data.
Section	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- Press [YES] key.

Used to delete the document filing data.

When the operation is completed, [EXECUTE] key returns to the normal display.

62-12	
Purpose	Setting
Function (Purpose)	Used to set Enable/Disable of auto formation a hard disk trouble.
Section	-

#### Operation/Procedure

- 1) Enter the set value with 10-key.
- Press [OK] key.

The set value is saved.

When it is set to Enable, if a read error of HDD occurs in the system data storage area (FAX/device cloning data, etc.), only the system data storage area is cleared.

Α	0	Enable
	1	Disable (Default)

62-13	
Purpose	Data clear
Function (Purpose)	Used to format the hard disk. (Operation Manual, watermark data only)
Section	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- Press [YES] key.

The operation manual data are deleted.

When the operation is completed, [EXECUTE] key returns to the normal display.

62-14	
Purpose	Data clear
Function (Purpose)	Used to delete the document filing management data.
Section	HDD

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The document filing management data are cleared.

At the same time, the job log data are also cleared.

This simulation is executed in the following trouble cases.

- \* The document filing function does not work normally.
- \* The job log is not recorded normally.

# Note

This simulation may not function with some firmware versions.

In such a case, the firmware must be upgraded to the latest version.

62-15	
Purpose	Data conversion
Function (Purpose)	Used to convert the setting data for document filing reprint.
Section	MFP

#### Operation/Procedure

Press [EXECUTE] key.

Conversion of the setting data for document filing reprint is started. When the procedure is completed, "EXECUTE" button returns to the normal display.

#### **Description:**

The document filing data made in a machine of the 26cpm/31cpm/ 36 cpm machine with the ICU firmware version 00.28.A1 or before cannot be reprinted under the environment of the ICU firmware version 01.00.A1 or later.

To solve this problem, use this simulation to convert the document filing data made under the older firmware into those for the new firmware, enabling reprinting.

Be sure to execute this simulation when the ICU firmware version is upgraded from 00.28.A1 or before to 01.00.A1 or later.

62-20				
Purpose	Operation test/check			
Function (Purpose)	Used to check the operation of the mirroring hard disk. (26cpm/36cpm/31cpm(A) machine)			
Section	Mirroring hard disk			

Enter the simulation mode, and the operation status of the HDD is displayed.

The status display is renewed in every second.

Display	Content description	
ОК	Normal operation	
NONE	Not connected	
REBUILDING	Data rebuilding	
ERROR	Error occurrence	
TROUBLE	Trouble	



63-1						
Purpose	Adjust	tme	nt/Settino	g/Op	eration da	ta check
Function (Purpose)	Used result.		display	the	shading	correction
Section	Scann	ner				

#### Operation/Procedure

1) Select a target color to display with [R] [G] [B] on the touch panel.

#### [RSPF]

Item/		
Display	Content	NOTE
GAIN ODD	Gain adjustment value	
	(odd number)	
GAIN EVEN	Gain adjustment value	
	(Even number)	
OFFSET	Offset value	
ODD	(odd number)	
OFFSET	Offset value	
EVEN	(even number)	
SMP AVE	Reference plate	
ODD	sampling average	
	value (ODD)	
SMP AVE	Reference plate	
EVEN	sampling average	
	value (EVEN)	
TARGET	Target value	
VALUE		
BLACK	Black output level	
LEVEL		

Item/	Content		NOTE
Display	Content	NOTE	
ERROR	Error code	0	No error
CODE	(0, 1-14)	1	Loop number over
	(for debug)	2	The target value is under the specified value.
		3	The gain set value is negative.
		4	END is not asserted. (Gain adjustment)
		5	(reserve)
		6	Underflow
		7	Black shading error
		8	Other error
		9	END is not asserted. (White shading)
		10	END is not asserted. (Black shading)
		11	END is not asserted. (Light quantity correction)
		12	END is not asserted. (Scan)
		13	Register check error. (When booting/ Before gain)
		14	Register check error. (Before light quantity correction)
RSPF WHITE LEVEL 1ST	First scan RSPF white reference level		
RSPF WHITE LEVEL 2ND	Second scan RSPF white reference level		

63-2	
Purpose	Adjustment
Function (Purpose)	Used to perform shading.
Section	

## Operation/Procedure

1) (When RSPF model)

Press [EXECUTE] key.

Used to perform shading.

When the operation is completed, [EXECUTE] key returns to the normal display.

63-3	
Purpose	Adjustment
Function (Purpose)	Used to perform scanner (CCD) color balance and gamma auto adjustment.
Section	Scanner

#### Operation/Procedure

- Place the SIT chart (UKOG-0280FCZZ or UKOG-0280FCZ1) on the reference position of the left rear frame side of the document table.
- 2) Press [EXECUTE] key.

The scanner (CCD) color balance automatic adjustment is performed

When the operation is completed, [EXECUTE] key returns to the normal display.

After completion of the operation, press [RESULT] key, and the adjustment data are displayed. At that time, the target color of data display can be selected with [R] [G] [B] key.

63-4	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	Used to display the SIT chart patch density.
Section	

- Set the SIT chart (UKOG-0280FCZZ or UKOG-0280FCZ1) to the reference position on the left rear frame side of the document table.
- Press [EXECUTE] key.

The patch of the SIT chart is scanned.

When the operation is completed, [EXECUTE] key returns to the normal display.

3) Select a data display mode.

THROUGH GAMMA	SIT chart scan data
COPY GAMMA	Copy mode gamma process data of the SIT chart scan data
SCANNER GAMMA	Image send mode gamma process data of the SIT chart scan data
SIT CHECK	SIT chart scan data/Check result

Select an target display color with [R] [G] [B] keys.

63-5	
Purpose	Adjustment/Setup
Function (Purpose)	Used to perform the scanner (CCD) color balance and gamma default setting.
Section	

#### Operation/Procedure

- 1) Press [EXECUTE] key, and press [YES] key
- The scanner (CCD) color balance and gamma are set to the default

63-6	
Purpose	Adjustment/Setting/Operation data check
Function (Purpose)	sity level of the copy color balance adjust-
Section	ment patch.

#### Operation/Procedure

- Set the color balance adjustment pattern sheet printed with SIM46-21 on the document table.
- 2) Press [EXECUTE] key.

The patch image of the adjustment pattern sheet is scanned. Select a target color with [C] [M] [Y] [K] key.

63-7	
Purpose	Adjustment/Setup
Function (Purpose)	Used to register the service target of the copy mode auto color balance adjustment.
Section	

#### Operation/Procedure

- 1) Press [SETUP] key on the touch panel.
- Set the color balance adjustment pattern sheet printed with SIM46-21 on the document table.
- 3) Press [EXECUTE] key.

The patch image of the adjustment pattern sheet is scanned.

4) Press [OK] key.

The service target of the copy mode automatic color balance adjustment is registered according to the patch image of the scanned adjustment pattern sheet.

The registered color balance and the density are displayed. Select a target color with [C] [M] [Y] [K] key.

#### **Important**

This simulation is executed only when the copy color balance is manually adjusted.

В	Point B target value
С	Point C target value
D	Point D target value
Е	Point E target value
F	Point F target value
G	Point G target value
Н	Point H target value
I	Point I target value
J	Point J target value
K	Point K target value
L	Point L target value
М	Point M target value
N	Point N target value
0	Point O target value
BASE	Background sampling value

63-8	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the default of the service target of the copy mode auto color balance adjustment.
Section	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The service target of the copy mode automatic color balance adjustment is set to the default.

The service color balance target and the color balance target for the user color balance adjustment are set to the same color balance as the factory color balance target.

63-11		
Purpose	Adjustment/Setup	
Function (Purpose)	Used to set the target color balance of the copy mode auto color balance adjustment.	
Section	The state of the s	

#### Operation/Procedure

1) Select the target color balance with the touch panel.

Item/Dis	play	Content	Default value
Target color balance	DEF1	The engine color balance adjustment target in the automatic color balance operation is slightly shifted to Magenta. When this target is selected, the color balance is converted into natural gray color balance by the color table in an actual copy mode and print is made.	DEF 1
	DEF2	The engine color balance adjustment target in the automatic color balance operation is slightly shifted to natural gray color balance. When this target is selected, the color balance is slightly shifted to Cyan by the color table in an actual copy mode and print is made.	
	DEF3	The engine color balance adjustment target in the automatic color balance operation is slightly shifted to Cyan. When this target is selected, the color balance is converted into the color balance with enhanced Cyan by the color table in an actual copy mode and print is made.	



64-1	
Purpose	Operation test/check
Function (Purpose)	Test print. (Self print) (Color mode)
Section	

1) Set the print conditions.

Select an item to be print condition with scroll keys.

Set the print conditions with 10-key.

Select a target print color with [K] [C] [M] [Y] key.

2) Press [EXECUTE] key.

The test print (self print) is performed.

	Item/Di	splay		Content	Setting range		Default value
Α	PRINT PATTERN		Specification of th	e print pattern	1 - 58 (Printable only 1, 2, 9 - 11, 17 - 19,	21,	1
	(1, 2, 9 - 11, 17 - 19,	21, 22, 29)	(* For details, refer to the description below.)		22, 29)		
В	DOT1 (DOT1>=2 IF	A: 2,11)	Setting of print dot number (M parameter)		1-255		1
			(Self print pattern	: m by n)	(Pattern 2, 11: 2-255 except above: 1-25	55)	
С	DOT2 (DOT2>=2 IF A: 2,11)			ot number (N parameter)	0-255		254
			(Self print pattern:		(Pattern2, 11: 2-255 except above: 0-25	55)	
D	DENSITY (FIXED "2	55" IF A: 9)	Used to specify th	e print gradation.	1-255		255
					(Pattern 9: 255 Fixed except above:1-25	55)	
Е	MULTI COUNT	1	Number of print	1	1 - 999		1
F	EXPOSURE	THROUGH	Exposure mode	No process (through)	1-8	1	8
	(2 - 8 IF A: 17 - 19)	CHAR/PIC	specification	Text/Printed Photo	(Pattern 17-19: 2-8	2	(STANDARD
		CHAR/PRPIC		Text/ Photograph	except above:1-8)	3	DITHER)
		CHAR		Text		4	
		PRINT PIC		Printed Photo		5	
		PRINT PAPER		Photograph		6	
		MAP		Мар		7	
		STANDARD DITHER		Dither without correction		8	
G	PAPER	MFT	Tray selection	Manual paper feed	1 - 6	1	2
		CS1		Tray 1		2	(CS1)
		CS2		Tray 2		3	
		CS3		Tray 3		4	
		CS4		Tray 4		5	
		LCC		LCC		6	
Н	DUPLEX	YES	Duplex print	Yes	0 - 1	0	1
		NO	selection	No		1	(NO)
1	PAPER TYPE	PLAIN	Paper type	Standard paper	1 - 6	1	1
		HEAVY		Heavy paper		2	(PLAIN)
		OHP		OHP		3	
		ENVELOPE		Envelope		4	
		HEAVY2	]	Heavy paper 2		5	
		GLOSSY		Glossy paper		6	

Pattern No.	Content	Pattern generating section	NOTE
1	Grid pattern	LSU-ASIC	When the print width is 100 or more and all colors are selected, print is made in the three colors (CMY). Print is started at 4mm from the paper lead edge. Writing regardless of pound. The first one is fixed to LD1.
2	Dot print	1	-
9	Each color 10% area (A4/ A4R) density print		Each interval is 41.86mm (989dot). If m is not in the range of 1 - 13%, it is rounded. K print is started at 17mm from the paper lead edge.
10	8-color belt print		· · · · · · · · · · · · · · · · · · ·
11	4-color dot print (sub scan)		For every 1/4 of the sub scanning direction paper size, print is made for each color.     When N=0, print of all the background is made in 4 colors.
17	All background (halftone)	Halftone	When all colors are selected, print is made in CMY.
18	256 gradations pattern (Other dither)	(IMG-ASIC rear process)	When all colors are selected, print is made in CMY.  16 gradations are printed in the main scanning direction, and feedback is made, and the next 16 gradations are printed. (16 x 16 patch print)  Print is started at 5mm from the paper lead edge.  Print is made from 255 gradations, and 0-254 gradations are printed.
19	256 gradations pattern (For text dither)		Print is made from 255 gradations, and 0-254 gradations are printed.

Pattern No.	Content	Pattern generating section	NOTE
21	4-point dot print (main scan)	LSU-ASIC	<ul> <li>For every 1/4 of the main scanning direction paper size, print is made for each color.</li> <li>When N=0, print of all the background is made in 4 colors.</li> </ul>
22	Slant line	LSU-ASIC	
29 (26cpm/36cpm/ 31cpm(A) machine)	Dot print 1200dpi	LSU-ASIC	M = 1 (Fixed), N = 1 or 3

64-2	
Purpose	Operation test/check
Function (Purpose)	Test print. (Self print) (Monochrome mode)
Section	

1) Set the print conditions.

Select an item to be print condition with scroll keys.

Set the print conditions with 10-key.

2) Press [EXECUTE] key.

The test print (self print) is performed.

	Item/Di	splay		Content	Setting range		Default value
Α	PRINT PATTERN		Print pattern speci	fication	1 - 58		1
	(1, 2, 9 - 11, 17 - 19,	21, 22, 29)	(* For details, refer to the description below.)		(Printable only 1, 2, 9 - 11, 17 - 19, 21, 22,		
					29)		
В	DOT1 (DOT1>=2 IF A: 2,11)		Setting of print dot number (M parameter)		1-255		1
			(Self print pattern: m by n)		(Pattern 2, 11: 2-255 except above: 1-	255)	
С	DOT2 (DOT2>=2 IF	A: 2,11)	Setting of blank do		0-255	055)	254
_	DENCITY (FIVED "2	EE" IE A. O.		If print pattern: m by n)	(Pattern2, 11: 2-255 except above: 0- 1-255	255)	255
D	DENSITY (FIXED "2	55 IF A. 9)	Used to specify the	e print gradation.	(Pattern 9: 255 Fixed except above:1-	255)	255
E	MULTI COUNT		Number of print		1 - 999	200)	1
F	EXPOSURE	THROUGH	Exposure mode	No process (through)	1-8	1	8
'	(2 - 8 IF A: 17 - 19)	CHAR/PIC	specification	Text/Printed Photo	(Pattern 17-19: 2-8	2	(STANDARD
	,	CHAR/PRPIC	.,	Text/ Photograph	except above: 1-8)	3	DITHER)
		CHAR		Text		4	
		PRINT PIC		Printed Photo		5	1
		PRINT PAPER		Photograph		6	
		MAP	1	Map		7	
		STANDARD DITHER		Dither without correction		8	
G	PAPER	MFT	Tray selection	Manual paper feed	1 - 6	1	2
		CS1		Tray 1		2	(CS1)
		CS2		Tray 2		3	
		CS3		Tray 3		4	
		CS4		Tray 4		5	
		LCC		LCC		6	
Н	DUPLEX	YES	Duplex print	Yes	0 - 1	0	1
		NO	selection	No		1	(NO)
I	PAPER TYPE	PLAIN	Paper type	Standard paper	1 - 6	1	1
		HEAVY		Heavy paper		2	(PLAIN)
		OHP		OHP		3	]
		ENVELOPE		Envelope		4	]
		HEAVY2		Heavy paper 2		5	]
		GLOSSY		Glossy paper		6	

Pattern No.	Content	Pattern generating section	NOTE		
1	Grid pattern	LSU-ASIC	When the print width is 100 or more and all colors are selected, print is made in the three colors (CMY). Print is started at 4mm from the paper lead edge. Writing regardless of pound. The first one is fixed to LD1.		
2	Dot print		-		
9	Each color 10% area (A4/ A4R) density print		<ul> <li>Each interval is 41.86mm (989dot).</li> <li>If m is not in the range of 1 - 13%, it is rounded.</li> <li>K print is started at 17mm from the paper lead edge.</li> </ul>		
10	8-color belt print				
11	4-color dot print (sub scan)		<ul> <li>For every 1/4 of the sub scanning direction paper size, print is made for each color.</li> <li>When N=0, print of all the background is made in 4 colors.</li> </ul>		

Pattern No.	Content	Pattern generating section	NOTE
17	All background (halftone)	Halftone (IMG-ASIC	-
18	256 gradations pattern (Other dither)	rear process)	-
19	256 gradations pattern (For text dither)		-
21	4-point dot print (main scan)	LSU-ASIC	<ul> <li>For every 1/4 of the main scanning direction paper size, print is made for each color.</li> <li>When N=0, print of all the background is made in 4 colors.</li> </ul>
22	Slant line	LSU-ASIC	
29 (26cpm/36cpm/ 31cpm(A) machine)	Dot print 1200dpi	LSU-ASIC	M = 1 (Fixed), N = 1 or 3

64-4	
Purpose	Operation test/check
Function (Purpose)	Printer test print. (Self print)
Section	

1) Set the print conditions.

Select an item to be print condition with scroll keys.

Set the print conditions with 10-key.

Select a target print color with [K] [C] [M] [Y] key.

- 2) Press [EXECUTE] key.
- 3) The test print (self print) is performed.

	Item/Dis	splay	Cor	ntent	Setting range	Default value
A PRINT PATTERN		Specification of the print pa (* For details, refer to the co		1 - 6	6	
В	DENSITY		Used to specify the print g	radation.	1 - 255	128
С	MULTI COUNT		Number of print		1 - 999	1
D	PAPER	MFT	Paper feed tray selection	Manual paper feed	1	3
		CS1		Tray 1	2	(CS2)
		CS2		Tray 2	3	
		CS3		Tray 3	4	
		CS4		Tray 4	5	
		LCC		LCC	6	
Е	HALFTONE	LOW	Halftone	Low line number	0	0
		HIGH		High line number	1	(LOW)
		GLOSSY		Glossy paper	2	
F	QUALITY	STANDARD	Image quality setting	Standard	0	1
		HIGHQUALITY		High quality	1	(HIGHQUALITY)
		FINE		Fine	2	
				(26cpm/36cpm/31cpm(A)		
				machine)		
G	DITHER	STRAIGHT	Specification of dither	Straight	0	1
		CALIB	correction	Calibration	1	(CALIB)
Н	PAPER TYPE	PLAIN	Paper type	Standard paper	0	0
		HEAVY		Heavy paper	1	
		HEAVY2		Heavy paper 2	2	
		GLOSSY		Glossy paper	3	

Pattern No.	Content
1	256 gradations pattern (COLOR)
2	256 gradations pattern (B/W)
3	256 gradations pattern (COLOR) (Y-M-C-K continuous)
4	Halftone pattern (COLOR)
5	Halftone pattern (B/W)
6	Background dot print

64-5	
Purpose	Operation test/check
Function (Purpose)	Printer test print. (Self print) (PCL)
Section	

1) Set the print conditions.

Select an item to be print condition with scroll keys.

Set the print conditions with 10-key.

Select a target print color with [K] [C] [M] [Y] key.

2) Press [EXECUTE] key.

The test print (self print) is performed.

	Item/Disp	lay		Content	Setting range	Default value
Α	PRINT PATTERN		Print pattern specification	on	1 - 5	3
В	DENSITY		Print gradation specifica	ation	1 - 255	255
С	MULTI COUNT		Number of print		1 - 999	1
D	PAPER	MFT	Paper feed tray	Manual paper feed	1	2
		CS1	selection	Tray 1	2	(CS1)
		CS2		Tray 2	3	
		CS3		Tray 3	4	
		CS4		Tray 4	5	
		LCC		LCC	6	
Е	HALFTONE	LOW(IMAGE)	Halftone	For Photo	0	3
		HIGH(TEXT)		For text	1	(AUTO)
		GLOSSY		For glossy paper	2	
		AUTO		Auto (for photo/text)	3	1
F	QUALITY	STANDARD	Image quality setting	Standard (600dpi, 1bit)	0	1
		HIGHQUALITY		High quality (600dpi, 4bit)	1	(HIGHQUALITY)
		FINE		Fine (1200dpi, 1bit) (26cpm/36cpm/31cpm(A) machine)	2	
G	DITHER	STRAIGHT	Specification of dither	0: Straight	0	1
		CALIB	correction	1: Calibration	1	
Н	PAPER TYPE	PLAIN	Paper type	Standard paper	0	0
		HEAVY		Heavy paper	1	(PLAIN)
		HEAVY2		Heavy paper 2	2	
		GLOSSY		Glossy paper	3	
- 1	INTENT	PERCEPTUAL	Rendering indent	Perceptual	0	0
		COLORIMETRIC		Color metric	1	(PERCEPTUAL)
		SATURATION		Saturation	2	
J	OUTPUT PROFILE	SHARP	Output profile	Standard	0	0
		STANDARD		Photo image	1	(SHARP)
		GRAPHICS		Graphics	2	
K	RGB SOURCE	SRGB	RGB source profile	SRGB	0	0
	PROFILE	GAMMA1.6		Gamma 1.6	1	(SRGB)
		GAMMA1.8		Gamma 1.8	2	
		GAMMA2.0		Gamma 2.0	3	
		GAMMA2.6		Gamma 2.6	4	
		GAMMA3.0		Gamma 3.0	5	
		TONER SAVE		For TONER SAVE	6	
L	GRAY COMPENSATION	K	Gray print method	Print method K	0	0
		KCMY		KCMY	1	(K)
М	PURE BLACK PRINT	ON	Black monochrome	set.	0	0
		OFF	print	not set.	1	(ON)
N	TONER SAVE MODE	OFF	Monochrome toner	not set.	0	0
		ON	save	set.	1	(OFF)

Pattern No.	Content
1	COLOR
2	B/W
3	Continuous COLOR,B/W
4	Service chart (COLOR)
5	Service chart (B/W)

64-6	
Purpose	Operation test/check
Function (Purpose)	Printer test print. (Self print) (PS)
Section	

1) Set the print conditions.

Select an item to be print condition with scroll keys.

Set the print conditions with 10-key.

Select a print color with [K] [C] [M] [Y] key.

2) Press [EXECUTE] key.

The test print (self print) is performed.

	Item/Displ	lay		Content	Setting range	Default value
Α	1		Print pattern specification		1 - 2	1
В	DENSITY		Print gradation specification		1 - 255	255
С	MULTI COUNT		Number of print		1 - 999	1
D	PAPER	MFT	Paper feed tray	Manual paper feed	1	2
		CS1	selection	Tray 1	2	(CS1)
		CS2		Tray 2	3	
		CS3		Tray 3	4	
		CS4		Tray 4	5	
		LCC		LCC	6	
Е	HALFTONE	LOW(IMAGE)	Halftone	For Photo	0	3
		HIGH(TEXT)		For text	1	(AUTO)
		GLOSSY		For glossy paper	2	
		AUTO		Auto (for photo/text)	3	
F	QUALITY	STANDARD	Image quality setting	Standard (600dpi, 1bit)	0	1
		HIGHQUALITY	7	High quality (600dpi, 4bit)	1	(HIGHQUALITY)
		FINE		Fine (1200dpi, 1bit) (26cpm/36cpm/31cpm(A) machine)	2	
G	DITHER	STRAIGHT	Specification of dither	0: Straight	0	1
		CALIB	correction	1: Calibration	1	(CALIB)
Н	PAPER TYPE	PLAIN	Paper type	Standard paper	0	0
		HEAVY		Heavy paper	1	(PLAIN)
		HEAVY2		Heavy paper 2	2	
		GLOSSY		Glossy paper	3	
I	INTENT	PERCEPTUAL	Rendering indent	Perceptual	0	0
		COLORIMETRIC		Color metric	1	(PERCEPTUAL)
		SATURATION		Saturation	2	
J	OUTPUT PROFILE	SHARP	Output profile	Standard	0	0
		STANDARD		Photo image	1	(SHARP)
		GRAPHICS		Graphics	2	
K	RGB SOURCE	SRGB	RGB source profile	SRGB	0	0
	PROFILE	GAMMA1.6		Gamma 1.6	1	(SRGB)
		GAMMA1.8		Gamma 1.8	2	
		GAMMA2.0		Gamma 2.0	3	
		GAMMA2.6		Gamma 2.6	4	]
		GAMMA3.0		Gamma 3.0	5	
		TONER SAVE		For TONER SAVE	6	
L	GRAY COMPENSATION	K	Gray print method	Print method K only	0	0
		KCMY		KCMY	1	(K)
М	PURE BLACK PRINT	ON	Black monochrome	set.	0	0
		OFF	print	not set.	1	(ON)
N	TONER SAVE MODE	OFF	Monochrome toner	not set.	0	0
		ON	save	set.	1	(OFF)
0	CMY SIMULATION	OFF	CMYK simulation	OFF	0	0
		SWOP		SWOP	1	(OFF)
		EURO		EURO	2	
		JAPAN COLOR		JAPAN COLOR	3	]
l		TONER SAVE		For TONER SAVE	4	

Pattern No.	Content
1	COLOR
2	B/W

64-7	
Purpose	Operation test/check
Function (Purpose)	Used to print the adjustment pattern of the test print. (Self print). (The adjustment pattern of SIM46-21 is printed.)
04!	

Section

#### Operation/Procedure

1) Set the print conditions.

Select an item to be print condition with scroll keys. Set the print conditions with 10-key.

2) Press [EXECUTE] key.

The adjustment pattern of SIM46-21 is printed.

li	Item/Display			Item/Display Content		Setting range	Default value	Writing
Α	COPIES	3	Nu	mber of print	1 - 999	1	No	
В	PROC ADJ	YES	0	The halftone process control correction value is reflected.	0 - 1	1	Yes	
		NO	1	The halftone process control correction value is not reflected.				



65-1	
Purpose	Adjustment
Function (Purpose)	Used to adjust the touch panel (LCD display section) detection coordinates.
Section	Operation panel section

#### Operation/Procedure

Touch the center of the cross mark at the four corners of the screen.

When the adjustment is completed normally, the screen shifts to the simulation sub number entry menu.

In case of an error, the screen returns to the adjustment menu.

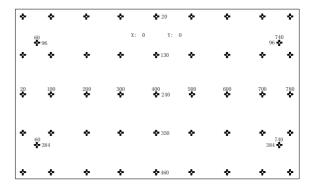


65-2	
Purpose	Operation check/test
Function (Purpose)	Used to display the touch panel (LCD display section) detection coordinates.
Section	

#### Operation/Procedure

Touch the touch panel.

The coordinates X (horizontal direction) and Y (vertical direction) of the touched position is displayed in real time.



65-5							
Purpose	Opera	ation	n check	/test			
Function (Purpose)	Used input.	to	check	the	operation	panel	key
Section							

#### Operation/Procedure

Press the keys sequentially according to the guidance displayed on the screen.

If the key entry is effective, the guidance for pressing the next key is displayed. When all the key entries are completed, "COMPLETE" is displayed.

#### <Check target key>

7 Inch LCD model
JOB STATUS
SYSTEM SETTINGS
HOME
1
2
3
4
5
6
7
8
9
AUDIT CLEAR
0
PROGRAM
CLEAR
STOP
CLEAR ALL/RESET
START (COLOR)
START (MONO)

10 Inch LCD model HOME



66-1	
Purpose	Setting
Function (Purpose)	Used to display the FAX-related soft SW (2 - 150) on the LCD to allow changing the soft SW while checking with the LCD.
Section	FAX

- 1) Enter the [SW NO] with 10-key.
  - \* When [C] key is pressed, the entered value of [SW NO] is cleared.
- 2) Press [DATA] button.

The soft SW data entered in procedure 1) is displayed.

- \* When [SW NO] button is pressed, the display returns to the initial screen.
- Enter the number corresponding to the bit to be changed with 10-key.
  - \*  $[1] \to [0]$  $[0] \to [1]$
- When [EXECUTE] button is pressed, it is highlighted and the setting is saved.

After saving the setting, [EXECUTE] button returns to the normal display.

66-2	
Purpose	Setting
Function (Purpose)	Used to enter a country code and set the default value for the country code.
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-02, the following screen is displayed.
  - \* When [DEST CODE] button is pressed, the display is shifted to the country code list screen.
  - \* The currently set country code is displayed in the column of "PRESENT:".
- Enter the country code (8 digits) with 10-key([0]/[1]). The entered country code is displayed in the column of "NEW:" and [SET] key becomes active.
  - \* When [C] key is pressed, the column of "NEW:" is cleared.
- When [SET] button is pressed after entering the country code, [EXECUTE] button becomes active. The country code is displayed in the column of "PRESENT:", and the column of "NEW:" is cleared.
- 4) When [EXECUTE] button is pressed, it is highlighted and [YES] and [NO] buttons become active. The country name is displayed on the tile line.
- When [YES] button is pressed, it is highlighted and the soft SW corresponding to the country code is initialized.
- After completion of initialization of the soft SW, [EXECUTE], [YES], and [NO] buttons become inactive.

#### Operation/Procedure (Shifting to the country page)

\* When [DEST CODE] button is pressed on the initial screen, the display is shifted to the country code list screen.

Use scroll keys to select the country select page.

#### <Country code list>

JAPAN	0000000
U.S.A.	10110101
AUSTRALIA	00001001
U.K.	10110100
FRANCE	00111101
GERMANY	00000100
SWEDEN	10100101
NEWZEALAND	01111110
CHINA	00100110
SINGAPORE	10011100
TW	11111110
MIDDLEANDNEAREAST	11111101
SLOVAKIA	11111100
OTHER3	11111011
FINLAND	00111100
NORWAY	10000010
DENMARK	00110001
NETHERLANDS	01111011
ITALY	01011001
SWITZERLAND	10100110
AUSTRIA	00001010
INDONESIA	01010100
THAILAND	10101001
MALAYSIA	01101100
INDIA	01010011
PHILIPPINES	10001001
HONGKONG	01010000
RUSSIA	10111000
SOUTHAFRICA	10011111
SPAIN	10100000
PORTUGUESE	10001011
LUXEMBURG	01101001
BELGIUM	00001111
CZECH	00101110
HUNGARY	01010001
GREECE	01000110
POLAND	10001010
BRAZIL	00010110

66-3	
Purpose	Operation test/Check
Function (Purpose)	Used to check read/write of the EEPROM and the SDRAM on the MODEM controller and display the result.
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-03, the following screen is displayed.
  - \* Select the page of memory check item with the scroll key.
- When the memory check item button is selected, the display is shifted to the memory check screen.
- 3) When [EXECUTE] button is pressed, it is highlighted and the memory check of the selected item is started.
- After completion of memory check, [EXECUTE] button returns to the normal display and the result of memory check is displayed.

#### Memory check status

NO CHECK	No check	
CHECKING	During checking	
OK	Check complete OK	
NG A##	Check complete NG	Error occurring address or data line is displayed for each item.

#### Check item

	Check memory item	Remark	
1	All Memory Device Check (once)	All the items are checked	
		once.	
2	MFP SRAM (once) *1	Check only once	
3	MFP SRAM (repeat) *1	Repeat check	
4	MFP FLASH + OP.FLASH (once) *1	1 Check only once	
5	MFP FLASH + OP.FLASH (repeat) *1	Repeat check	
6	6 MODEM EEPROM <1> (once) Check only once in LIN		
7	MODEM EEPROM <1> (repeat)	Repeat check in LINE1	
8	8 MODEM SDRAM <1> (once) Check only once in LINE		
9	9 MODEM SDRAM<1>(repeat) Repeat check in LINE1		

The number in < > indicates the line.

\*1: This function does not operated in the 26cpm/36cpm/31cpm(A) machines.

66-4	
Purpose	Operation test/Check
Function (Purpose)	Used to send the selected signals to the line and the main unit speaker. (Send level: max.)
Section	FAX
On a notice /Dua a a di	

#### Operation/Procedure

- 1) When the machine enters Simulation 66-04, the screen on the right is displayed. (Default, left upper selected.)
  - \* Use scroll keys to switch the send mode select page.
- When a button of a signal to be sent is selected, it is highlighted and the previously set button is shifted to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and signals are sent.
- 4) To end signal send:

When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

#### <Signal send table>

NOSIGNAL	33.6 V34	31.2 V34	28.8 V34
26.4 V34	24.0 V34	21.6 V34	19.2 V34
16.8 V34	14.4 V34	12.0 V34	9.6 V34
7.2 V34	4.8 V34	2.4 V34	14.4 V33
12.0 V33	14.4 V17	12.0 V17	9.6 V17
7.2 V17	9.6 V29	7.2 V29	4.8 V27t
2.4 V27t	0.3 FLG	CED 2100	CNG 1100
0.3 V21	ANSam	RINGER	No RBT

DP MAKE	DP BRK	NO MSG
DE WAKE	DE DIVIN	NO MISG

66-5	
Purpose	Operation test/Check
Function (Purpose)	Used to send the selected signal to the line and the main unit speaker. (Send level: Soft SW setting) (For the kinds of send signals, refer to SIM66-04.)
Section	FAX

#### Operation/Procedure

- 1) When the machine enters Simulation 66-05, the following screen is displayed.
  - \* Use scroll keys to switch the send mode select page.
- When a button of a signal to be sent is selected, it is highlighted and the previously set button is shifted to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and signals are sent.
- 4) To end signal send:
  - \* When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

66-6	
Purpose	Data output/Check
Function (Purpose)	Used to print the confidential registration check table (BOX NO., BOX name, passcode. (If there is no confidential registration, no print is made.)
Section	FAX
Operation/Bresedure	•

#### Operation/Procedure

- When [EXECUTE] button is pressed, it is highlighted and the confidential checkable is printed.
  - \* If there is no confidential registration, no print is made even though [EXECUTE] key is pressed.
- After completion of printing, [EXECUTE] button returns to the normal display.

66-7	
Purpose	Data output/Check
Function (Purpose)	Used to output all image data saved in the image memory. (Confidential data are also outputted.)
Section	FAX

#### Operation/Procedure

- When [EXECUTE] button is pressed, it is highlighted and all image data saved in the image memory are outputted.
- After completion of printing, [EXECUTE] button returns to the normal display.

66-8	
Purpose	Operation test/Check
Function (Purpose)	Used to send the selected sound messages to the line and the speaker. (Send level: Max.)
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-08, the following screen is displayed.
- When the sound message button to be sent is selected, it is highlighted and the previously set button returns to the normal display.

#### <Sound message table>

NONE (Mute)	PAUSE (Pause	MESSAGE1	MESSAGE2
	melody)	(Message 1)	(Message 2)
MESSAGE3	MESSAGE4	MESSAGE5	MESSAGE6
(Message 3)	(Message 4)	(Massage 5)	(Message 6)
ALARM (Alarm)	RINGER	EXT.TEL.RING	
	(Ringing sound	ER (External	
	(Speaker))	telephone call)	

66-9	
Purpose	Operation test/Check
Function (Purpose)	Used to send the selected sound message to the line and the speaker. (Send level: Soft SW setting)  * For details of sound messages, refer to the sound message table of SIM66-08.
Section	FAX

- When the machine enters Simulation 66-09, the following screen is displayed.
- When a button of a sound message to be sent is selected, it is highlighted and the previously set button returns to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
- 4) To end signal send:

When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

66-10	
Purpose	Data clear
Function (Purpose)	Used to clear the FAX and image send image data. (The confidential data are also cleared.)
Section	FAX
Oneretion/Dresedure	

#### Operation/Procedure

- 1) Press [EXECUTE] button.
- 2) Press [YES] button.
- After completion of clearing, press [CA] key to reboot the machine.

66-11	
Purpose	Operation test/Check
Function (Purpose)	Used to send the selected signal at 300bps to the line and the speaker. (Send level: Max.)
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-11, the following screen is displayed.
- When a button of a sound message to be sent is selected, it is highlighted and the previously set button returns to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
- 4) To end signal send:

When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

#### <300bps send signal table>

NO SIGNAL	11111	11110	00000
010101	00001		

66-12	
Purpose	Operation test/Check
Function (Purpose)	Used to send the selected signal at 300bps to the line and the speaker. (Send level: Soft SW setting)  * For the kings of send signals at 300bps, refer to SIM66-11, 300bps send signal table.
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-12, the following screen is displayed.
- When a button of a sound message to be sent is selected, it is highlighted and the previously set button returns to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
- 4) To end signal send:

When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

66-13	
Purpose	Setting
Function (Purpose)	Used to register dial numbers for SIM66-14/15/16, Dial test. (Up to 20 digits can be registered.)
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-13, the following screen is displayed.
  - \* The number saved in the memory is displayed in the column of [PRESENT:]. (If there is no data, [------] is displayed.)
- 2) Enter a number with 10-key.

The entered number is displayed in the column of [NEW:]. After entering 20 digits, 10-key is disabled (no response). Only [C] key is enabled. (10-key [0] to [9], [\*], [#], [C] key (back by one digit))

 When [SET] key is pressed after completion of entry, the entered number is displayed (registered) in the column of [PRESENT:]. The column of [NEW:] becomes blank.

66-14	
Purpose	Adjustment
Function (Purpose)	Used to execute the dial pulse (10PPS) send test and to adjust the make time.
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-14, the following screen is displayed.
- 2) When [EXECUTE] button is pressed, it is highlighted and the dial pulse is sent from the line in the set make time.
- To end the dial test, press [EXECUTE] button again. The button returns to the normal display and the test is terminated.

66-15	
Purpose	Adjustment
Function (Purpose)	Used to execute the dial pulse (20PPS) send test and to adjust the make time.
Section	FAX

- When the machine enters Simulation 66-15, the following screen is displayed.
- When [EXECUTE] button is pressed, it is highlighted and the dial pulse is sent from the line in the set make time.
  - \* The dial pulse in this example is up to 20 digits registered with SIM66-13.
- 3) To end the dial test, press [EXECUTE] button again. The button returns to the normal display and the test is terminated.

66-16		
Purpose	Adjustment	
Function (Purpose)	Used to execute the DTFM signal send test and to adjust the send level.	
Section	FAX	

#### Operation/Procedure

- When the machine enters Simulation 66-16, the following screen is displayed.
- When [EXECUTE] button is pressed, it is highlighted and the dial pulse signal is sent from the line by the setting of high/low group of the signal send level.
- To terminate the dial test, press [EXECUTE] button. The button returns to the normal display and the test is terminated.

66-17		
Purpose	Operation test/Check	
Function (Purpose)	Used to send the DTMF signal to the line	
	and the speaker. (Send level: Max.)	
Section	FAX	

#### Operation/Procedure

- When the machine enters Simulation 66-17, the following screen is displayed.
- When a button of a send signal is selected, it is highlighted and the previously set button returns to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and signals are sent.
- 4) To stop signal sending:

When [EXECUTE] button is pressed, it returns to the normal display and signal sending is interrupted.

66-18	
Purpose	Operation test/Check
Function (Purpose)	Used to send the DTMF signal to the line and the speaker. (Send level: Soft SW setting)
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-18, the following screen is displayed.
- When a button of a send signal is selected, it is highlighted and the previously set button returns to the normal display.
- When [EXECUTE] button is pressed, it is highlighted and signals are sent.
- 4) To stop signal sending:

When [EXECUTE] button is pressed, it returns to the normal display and signal sending is interrupted.

66-21	
Purpose	Check
Function (Purpose)	Used to print the selected items (system error, protocol monitor).
Section	FAX

#### Operation/Procedure

PROTOCOL LINE 1

- When an item button to be printed is selected, it is highlighted and the previously set button returns to the normal display.
- Press [EXECUTE] button.
   [EXECUTE] button is highlighted and printing is started.
- After completion of printing, [EXECUTE] button returns to the normal display.

SYSTEM ERROR LINE 1

#### <FAX information print content table>

66-22	
Purpose	Setting
Function (Purpose)	Used to set the handset sound volume. (This simulation can be executed even though the handset setting is set to NO. When, however, the handset is not installed, the sound volume cannot be checked.) (Japan model only)
Section	FAX

#### Operation/Procedure

- When the machine enters the simulation, the number of the set sound volume is displayed. (In this example, MIDDLE is set as the default sound volume.)
- Use 10-key to set the handset sound volume. (0: MIN 1:MID-DLE 2:MAX)
- 3) Press [EXECUTE] button to deliver the selected on-hold tone.
  - \* If, however, the handset is not installed, the sound volume cannot be checked. Execution is possible.
- When [EXECUTE] button is pressed, it is highlighted and delivery of the on-hold tone is stopped.

66-24		
Purpose	Data clear	
Function (Purpose)	Used to clear the FAST save data.	
Section	FAX	

#### Operation/Procedure

- 1) Press [EXECUTE] button.
- 2) Press [YES] button.

The FAST save data are cleared.

 After completion of memory clear, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.

66-29		
Purpose	Clear	
Function (Purpose)	Used to initialize the telephone book data (the one-touch registration table, the FTP/ Desktop expansion table, the group expansion table, the program registration table, the interface memory box table, the meta data, InboundRouting, and the DocumentAdmin table).	
Section	FΔΥ	

- 1) Press [EXECUTE] button.
- 2) Press [YES] button.

The telephone book data area cleared.

 After completion of memory clear, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.

66-30		
Purpose	Operation test/Check	
Function (Purpose)	Used to display the TEL/LIU status change, The display is highlighted by status change.	
Section	FAX	

#### Operation/Procedure

- When the machine enters Simulation 66-30, the following screen is displayed.
- HS1, HS2, RHS, and EXHS are highlighted when the signal is detected, and displayed normally when the signal is not detected.

#### <TEL/LIU status change item description>

HS1	Polarity inversion signal
HS2	Polarity inversion signal
RHS	Handset hook SW
EXHS	External telephone hook SW

66-31		
Purpose	Setting	
Function (Purpose)	Used to set ON/OFF the port for output to TEL/LIU.	
Section	FAX	

#### Operation/Procedure

- When the machine enters Simulation 66-31, the following screen is displayed.
- 2) Change the port setting.

When a port is set to ON, the port display is highlighted.

- When [EXECUTE] button is pressed, the changed setting is reflected to the port which outputs to TEL/LIU.
- To terminate the process, press [EXECUTE] button again. [EXECUTE] button returns to the normal display.

#### <Port which outputs to TEL/LIU>

CION	MR	EC	S.
------	----	----	----

66-32			
Purpose Operation test/Check			
Function (Purpose)	Used to check the fixed data received from the line and to display the result.		
Section	FAX		

#### Operation/Procedure

- Press [EXECUTE] button to check the fixed data received from the line. At that time, [EXECUTE] button is highlighted.
  - \* Fixed data check procedure
  - The data received from the line is checked of the following fixed data status for minutes, then if they are in accord with "OK" is displayed on LCD, if not "NG" is displayed.
  - The judgment is made in 2 minutes.

Receive speed: 300BPS Receive data: 00H Judgment data: 100byte

After completion of check, [EXECUTE] button returns to the normal display. The result is displayed as "OK" or "NG."

66-33		
Purpose	Operation test/Check	
Function (Purpose)	Used to execute detection of various signals with the line connected and to display the detection result. When a signal is detected, the display is highlighted.	
Section	FAX	

#### Operation/Procedure

- 1) When the machine enters Simulation 66-33, the following screen is displayed.
- The signal to be checked can be selected from the two options: "FNET" and "BT/CNG/CED/DTMF."
- When a signal is detected, "FNET" and "BUSY TONE CNG CED DTMF" are highlighted. When a signal is not detected, they are normally displayed.

#### <Signal used for signal detection check>

#### (When "FNET" is selected)

FNET

#### (When "BT/CNG/CED/DTMF" is selected)

BUSY TONE	CNG	CED	DTMF

66-34	
Purpose	Operation test/Check
Function (Purpose)	Used to execute the send test and display the time required for sending image data in the test. Used to execute send test and display. (Unit: ms)
Section	FAX

#### Operation/Procedure

- 1) FAX send is performed.
- 2) Enter the SIM 66-34 mode.

The send time in procedure 1) is displayed.

66-36	
Purpose	Operation test/Check
Function (Purpose)	Used to check send and receive data from the MODEM controller to the MFP controller or the data line or the command line individually.
Section	FAX

- When the machine enters Simulation 66-36, the following screen is displayed.
- Operation check
   Select an item to be checked on the screen.

#### <MFP controller I/F check item table>

MFP ← MDMC (DATA once)	MFP → MDMC (DATA once)
Data line Once	Data line Once
MFP ← MDMC (DATA repeat)	MFP → MDMC (DATA repeat)
Data line Repeat	Data line Repeat
MFP ← MDMC (CMD once)	$MFP \rightarrow MDMC (CMD once)$
Command line Once	Command line Once
MFP ← MDMC (CMD repeat)	MFP → MDMC (CMD repeat)
Command line Repeat	Command line Repeat

66-39	
Purpose	Setting
Function (Purpose)	Used to check and change the destination setting saved in EEPROM of the FAX BOX.
Section	FAX

#### Operation/Procedure

- When the machine enters the simulation, the currently set destination button is highlighted. (In the default state, JAPAN is set as the destination.)
- Select a destination button to set the destination. (In this example, USA/CANADA is selected.) The selected button is highlighted and the previously selected button returns to the normal display.
  - \* When the destination button is changed, the new destination setting is saved to EEPROM of the FAX BOX.

#### <Destination setting table>

JAPAN	U.S.A/CANADA	EUROPE	AUSTRALIA
CHINA	ASIA&OTHERS		

66-42	
Purpose	Setting
Function (Purpose)	Used to rewrite the program to power control installed in the FAX BOX.
Section	FAX

#### Operation/Procedure

- Press [EXECUTE] button.[EXECUTE] button is highlighted and YES] and [NO] buttons become active.
- 2) Press [YES] button.
  - The power control program is rewritten.
- When rewriting of the power control program is normally completed, "OK" is displayed and [EXECUTE] button returns to the normal display, and [YES] and [NO] buttons gray out.

66-43	
Purpose	Setting
Function (Purpose)	Used to write the adjustment value into the power control installed in the FAX BOX.
Section	FAX

#### Operation/Procedure

- When the machine enters Simulation 66-43, the following screen is displayed.
  - \* Use scroll keys to select the select item of the power control adjustment value.
- When [EXECUTE] key is pressed, it is highlighted and writing to the power control is executed. When writing is normally completed, "OK" is displayed. When it is failed, "NG" is displayed.
- After completion of writing, [EXECUTE] key returns to the normal display.

#### <Set range and default value of each set value>

	ltem	Set range	Default value
Α	CI_LEVEL_JUDGE	2 to 15	6
В	CI_CYCLE_MIN	1 to 254	10
С	CI_CYCLE_MAX	2 to 255	142
D	CI_COUNT	2 to 15	3
Ε	RES_3.3V_LEVEL_JUDGE	2 to 15	15
F	EXHS_LEVEL_JUDGE	2 to 225	240
G	RHS_LEVEL_JUDGE	2 to 15	2
Н	SON_TIMEOUT	1 to 127	20

66-61	
Purpose	Setting
Function (Purpose)	Used to display the FAX-related soft SW (151 - 250) on the LCD to allow changing the soft SW while checking with the LCD.
Section	FAX

#### Operation/Procedure

- 1) Enter the [SW NO] with 10-key.
- 2) Press [DATA] button.

The soft SW data entered in procedure 1) is displayed.

- Enter the number corresponding to the bit to be changed with 10-key.
  - \* [1] → [0]
    - $[0] \to [1]$
- When [EXECUTE] button is pressed, it is highlighted and the setting is saved.

66-62	
Purpose	Backup
Function (Purpose)	Used to import the FAX receive data into a USB memory in PDF file type.
Section	FAX

#### Operation/Procedure

- 1) Insert the USB memory into the main unit.
- 2) Select data to be imported.
- 3) Press [EXECUTE] key.

Execute import of data selected in procedure 2).

When the operation is completed normally, [COMPLETE] is displayed. In case of an abnormal end, [ERROR] is displayed.

Error display	Content
ERROR: NO USB MEMORY DEVICE	No USB memory installed
ERROR: NO IMAGE DATA	No image data
ERROR	Other errors



67-17		
Purpose	Reset	
Function (Purpose)	Printer reset	
Section	Printer	

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The set data related to the printer are initialized. (Including the NIC setting.)

When the operation is completed, [EXECUTE] key returns to the normal display.

67-24					
Purpose	Adjustn	nent/Se	etup		
Function (Purpose)	Printer adjustm		balance	adjustment	(Auto
Section	Printer				

#### Operation/Procedure

- 1) Press [EXECUTE] key.
  - The color patch image (adjustment pattern) is printed out.
- Plate the printed adjustment pattern on the document table, select [FACTORY] or [SERVICE] mode.
- 3) Press [EXECUTE] key.

The printer color balance auto adjustment is performed, and the adjustment result is printed.

4) Press [OK] key.

The halftone correction target registration is processed.

67-25	
Purpose	Adjustment/Setup
Function (Purpose)	Printer color balance adjustment (Manual adjustment)
Section	Printer

#### Operation/Procedure

- Select an adjustment target color with [K][C][M][Y] keys on the touch panel.
- Select a target adjustment density level with scroll key on the touch panel.
- 3) Enter the set value with 10-key.
  - \* When the  $\triangle$   $\nabla$  key is pressed, the setting value of each item can be changed with 1up (1down) collectively.
- 4) Press [OK] key. (The set value is saved.)

When the adjustment value is increased, the image density is increased, and vice versa.

When [EXECUTE] key is pressed, the check pattern in printed in the color balance and density corresponding to the adjustment value.

	Item/Display	Setting range	Default value
Α	POINT1	1 - 999	500
В	POINT2	1 - 999	500
С	POINT3	1 - 999	500
D	POINT4	1 - 999	500
Ε	POINT5	1 - 999	500
F	POINT6	1 - 999	500
G	POINT7	1 - 999	500
Н	POINT8	1 - 999	500
- 1	POINT9	1 - 999	500
J	POINT10	1 - 999	500
K	POINT11	1 - 999	500
L	POINT12	1 - 999	500
М	POINT13	1 - 999	500
Ν	POINT14	1 - 999	500
0	POINT15	1 - 999	500
Р	POINT16	1 - 999	500
Q	POINT17	1 - 999	500

67-26		
Purpose	Adjustment/Setup	
Function (Purpose)	Used to set the target color balance of the printer mode auto color balance adjustment.	
Section	Printer	

#### Operation/Procedure

1) Select the target color balance with the touch panel.

Item/Display		Content	Default value
Target value table select	DEF1	The engine color balance adjustment target in the automatic color balance operation is slightly shifted to Magenta. When this target is selected, the color balance is converted into natural gray color balance by the color table in an actual printer made and print is made.	DEF 1
	DEF2	actual printer mode and print is made.  The engine color balance adjustment target in the automatic color balance operation is slightly shifted to natural gray color balance. When this target is selected, the color balance is slightly shifted to Cyan by the color table in an actual copy mode and print is made.	
	DEF3	The engine color balance adjustment target in the automatic color balance operation is slightly shifted to Cyan. When this target is selected, the color balance is converted into the color balance with enhanced Cyan by the color table in an actual copy mode and print is made.	

67-27	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the service target of the printer mode auto color balance adjustment.
Section	Printer

- 1) Press [SETUP] key on the touch panel.
- Place the printed color balance adjustment pattern sheet printed in SIM 67-25 on the document table.
- Press [EXECUTE] key.

The patch image of the adjustment pattern sheet is scanned.

4) Press [OK] key.

The service target of the printer mode auto color balance adjustment is set according to the scanned adjustment pattern sheet patch images.

The registered color balance and the density are displayed.

Select a target color with [C] [M] [Y] [K] key.

## Important

This simulation is executed only when the printer color balance is manually adjusted.

Point B target value
Point C target value
Point D target value
Point E target value
Point F target value
Point G target value
Point H target value
Point I target value
Point J target value
Point K target value
Point L target value
Point M target value
Point N target value
Point O target value
Background sampling value

67-28		
Purpose	Adjustment/Setup	
Function (Purpose)	Used to set the default of the service target of the printer mode auto color balance adjustment.	
Section	Printer	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The service target of the printer mode auto color balance adjustment is set to the default.

The service color balance target and the color balance target for the user color balance adjustment are set to the same color balance as the factory color balance target.

67-31	
Purpose	Data clear
Function (Purpose)	Used to clear the printer calibration value.
Section Printer	

#### Operation/Procedure

- 1) Press [EXECUTE] key.
- 2) Press [YES] key.

The printer calibration data (Halftone correction data) are cleared.

(The printer color balance correction is canceled.)

67-33	
Purpose	Adjustment/Setup
Function (Purpose)	Used to change the gamma of the printer
	screen.
Section	Printer

#### Operation/Procedure

- Select a target change color with [K] [C] [M] [Y] key on the touch panel.
- 2) Select a target screen with [SCREEN] key.
- 3) Select a target adjustment density level with scroll key.
- 4) Enter the set value with 10-key.
- 5) Press [OK] key. (The set value is saved.)

When [EXECUTE] key is pressed, the check pattern in printed in the color balance and density corresponding to the adjustment value.

However, check pattern print-out cannot be made in the GDI printer mode. (Only the adjustment can be made.)

	Item/Display	Content	Setting range	Default value
Α	POINT1	Point 1	0 - 255	128
В	POINT2	Point 2	0 - 255	128
С	POINT3	Point 3	0 - 255	128
D	POINT4	Point 4	0 - 255	128
E	POINT5	Point 5	0 - 255	128
F	POINT6	Point 6	0 - 255	128
G	POINT7	Point 7	0 - 255	128
Н	POINT8	Point 8	0 - 255	128
I	POINT9	Point 9	0 - 255	128
J	POINT10	Point 10	0 - 255	128
K	POINT11	Point 11	0 - 255	128
L	POINT12	Point 12	0 - 255	128
M	POINT13	Point 13	0 - 255	128
N	POINT14	Point 14	0 - 255	128
0	POINT15	Point 15	0 - 255	128
Р	POINT16	Point 16	0 - 255	128
Q	POINT17	Point 17	0 - 255	128

#### 18cpm/20cpm/23cpm/31cpm(G) machine

#### PCL/PS printer

Display	Content
SCREEN1	600dpi 1bit Photo
SCREEN2	600dpi 1 bit Graphics
SCREEN3	600dpi 4 bit Photo
SCREEN4	600dpi 4 bit Graphics
SCREEN7	B/W 600dpi 1 bit
SCREEN8	B/W 600dpi 4 bit
SCREEN10	Gloss 600dpi 4bit
HEAVY PAPER	Printer paper kind manual gamma correction
	(Heavy paper)

#### **GDI** printer

Display	Content	Button
SCREEN1	600dpi 1bit Low (Photo)	CMYK
SCREEN2	600dpi 1bit High (Graphics)	CMYK
SCREEN3	600dpi 2bit Low (Photo)	CMYK
SCREEN4	600dpi 2bit High (Graphics)	CMYK
SCREEN5	B/W 600dpi 1bit	K
SCREEN6	B/W 600dpi 2bit Low (Photo)	K
SCREEN7	B/W 600dpi 2bit High (Graphics)	K
SCREEN8	Gloss 600dpi 1bit	CMYK
SCREEN9	Gloss 600dpi 2bit	CMYK

#### 26cpm/36cpm/31cpm(A) machine

Display	Content
HEAVY PAPER	Heavy paper
SCREEN1	600dpi 1bit Photo
SCREEN2	600dpi 1bit Graphics
SCREEN3	600dpi 4bit Photo
SCREEN4	600dpi 4bit Graphics
SCREEN5	1200dpi 1bit Photo
SCREEN6	1200dpi 1bit Graphics
SCREEN7	B/W 600 dpi 1bit
SCREEN8	B/W 600 dpi 4bit
SCREEN9	B/W 1200dpi 1bit
SCREEN10	Gloss 600 dpi 4bit

67-34	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the density correction in the printer high density section. (Support for the high density section tone gap)
Section	Printer

#### Operation/Procedure

1) Enter the set value with 10-key.

0	Enable
1	Disable

#### 2) Press [OK] key. (The set value is saved.)

	Item/Display		Content	Setting range	Default value
Α	CMY (0: ENABLE 1: DISABLE)	0 CMY engine highest density correction mode: Enable		0 - 1	0
		1	CMY engine highest density correction mode: Disable		
В	K (0: ENABLE 1: DISABLE)	0 K engine highest density correction mode: Enable		0 - 1	1
		1	K engine highest density correction mode: Disable		
С	CYAN MAX TARGET	Scanner target value for CYAN maximum density correction		0 - 999	500
D	MAGENTA MAX TARGET	Scanner target value for MAGENTA maximum density correction		0 - 999	500
Е	YELLOW MAX TARGET	Scanner target value for YELLOW maximum density correction		0 - 999	500
F	BLACK MAX TARGET	Scanner target value for BLACK maximum density correction		0 - 999	500

 When tone gap is generated in the high density section, set items A and B to "0."

The density in the high density section is decreased, but tone gap is reduced.

 To increase the density in the high density section further, set items A and B to "1.

The tone gap may occur in high density part.

# Important

Do not change the values of items C, D, E, and F. If these values are changed, the density in the high density area is changed.

67-36	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the density in the low density section.
Section	Printer

#### Operation/Procedure

- 1) Enter the adjustment value using the 10-key.
- 2) Press [OK] key.

When the adjustment value is increased, the low density images are strongly reduced. When the adjustment value is decreased, the low density are images are weakly reproduced.

When tone gap is generated in the low density section (highlight section), changing this adjustment value may improve the trouble.

Item/Display		Content	Setting range	Default value
Α	A PATCH INPUT	A patch input value	0 - 13	1

67-45	
Purpose	Adjustment/Setup
Function (Purpose)	Used to adjust the printer image filter and trapping.
Section	Printer

#### Operation/Procedure

- 1) Select an adjustment item with the scroll key.
- 2) Enter the set value.
- 3) Press [OK] key.

	Item/Display	Content	Setting range	Default value	NOTE	
Α	SHARPNESS: COLOR PRINT	Color print	0 - 4	2	The greater the set value	
В	SHARPNESS: B/W PRINT	Monochrome print	0 - 4	2	is, the stronger the filer enhancement is. The smaller the set value is, the stronger the filter smoothness is. (0: Soft High, 1: Soft Low, 2: Center, 3: Sharp Low, 4: Sharp High)	
С	TRAPPING: CMY (PCL & DIRECTPRINT)	CMY (PCL, Direct Print)	0 - 5	3	The greater the set value is, the	
D	TRAPPING: K (PCL & DIRECTPRINT)	K (PCL, Direct Print)	0 - 5	3	stronger the trapping is. (0: OFF, (Low)	
Е	TRAPPING: CMY (PS)	CMY (PS)	0 - 5	3	1 < 2 < 3 < 4 < 5)	
F	TRAPPING: K (PS)	K (PS)	0 - 5	0	(The target is vector images.	
G	TRAPPING: CMY (XPS)	CMY (XPS)	0 - 5	0	There is no effect for the	
Н	TRAPPING: K (XPS)	K (XPS)	0 - 5	0	raster images.) However, the sharpness also varies.	

67-52	
Purpose	Adjustment/Setup
Function (Purpose)	Used to set the default of the gamma of the printer screen.
Section	Printer

- Select a target default setting mode with the touch panel.
   Press [ALL] key to select all the modes.
- 2) Press [EXECUTE] key and press [YES] key.

When the printer screen gamma was changed by SIM 67-33, SIM67-54, it is reset to the default.

#### 18cpm/20cpm/23cpm/31cpm(G) machine

#### PCL/PS printer

Item/Display		Content
Screen	HEAVYPAPER	Heavy paper screen
		Printer heavy paper automatic density
		correction amount
	600DPI_1BIT	SCREEN1 (600dpi 1bit Photo)
		SCREEN2 (600dpi 1bit Graphics)
	B/W	SCREEN7 (600dpi 1bit Graphics)
		SCREEN8 (600dpi 1bit Graphics)
		SCREEN9 (600dpi 1bit Graphics)
		Printer B/W toner save automatic density
		correction amount
	GLOSSPAPER	SCREEN10 (Glossy paper screen)

#### **GDI** printer

Item/Display		Content
Screen	600DPI_1BIT	SCREEN1 (600dpi 1bit Low (Photo))
		SCREEN2 (600dpi 1bit High (Graphics))
	B/W	SCREEN5 (B/W 600dpi 1bit)
		SCREEN6 (B/W 600dpi 2bit Low (Photo))
		SCREEN7 (B/W 600dpi 2bit High
		(Graphics))
	GLOSSPAPER	SCREEN8 (Gloss 600dpi 1bit)
		SCREEN9 (Gloss 600dpi 2bit)

#### 26cpm/36cpm/31cpm(A) machine

Item/Display		Content
Screen	HEAVYPAPER	Heavy paper screen
		Printer heavy paper automatic density
		correction amount
	1200DPI_1BIT	SCREEN5 (1200dpi 1bit Photo)
		SCREEN6 (1200dpi 1bit Graphics)
	600DPI_1BIT	SCREEN1 (600dpi 1bit Photo)
		SCREEN2 (600dpi 1bit Graphics)
	B/W	SCREEN7 (600dpi 1bit Graphics)
		SCREEN8 (600dpi 1bit Graphics)
		SCREEN9 (600dpi 1bit Graphics)
		Printer B/W toner save automatic density
		correction amount
	GLOSSPAPER	SCREEN10 (Glossy paper screen)

67-54	
Purpose	Adjustment
Function (Purpose)	Printer color balance adjustment (Automatic adjustment for each dither (The adjustment is disable in a GDI printer.))
Section	Printer

#### Operation/Procedure

This simulation is used to adjust the color balance, the density, and the gradation in the monochrome mode, the heavy paper mode, the 1200dpi mode, and the 600dpi 1bit mode.

This simulation is used to improve image quality in these modes and images.

- Press [EXECUTE] key. (A3 or 11" x 17" paper is automatically selected.)
  - The color patch image (adjustment pattern) is printed out.
- 2) Set the color patch image (adjustment pattern) printed in the procedure 1) on the document table so that the thin lines on the printed color patch image (adjustment pattern) are on the left side. Place 5 sheets of white paper on the printed color patch image (adjustment pattern).
- 3) Press [EXECUTE] key.

The color balance adjustment is automatically performed.

The adjustment pattern is printed out. Check it for any abr

The adjustment pattern is printed out. Check it for any abnormality.

- 4) Press [OK] key.
  - The list of the adjustment items (for each dither) is displayed.
- 5) Select an adjustment item (for each dither).

Select item (Mode)	Content
Heavy Paper	Adjustment item to improve the color balance in the heavy paper mode
B/W	Adjustment item to improve the density and gradation in the monochrome mode
Glossy	Adjustment item to improve the color balance in glossy paper mode
1200dpi 1bit	Adjustment item to improve the color balance in 1200dpi mode

 Press [EXECUTE] key. (A3 or 11" x 17" paper is automatically selected.)

The color patch image (adjustment pattern) is printed out.

- 7) Set the color patch image (adjustment pattern) printed in the procedure 6) on the document table so that the thin lines on the printed color patch image (adjustment pattern) are on the left side. Place 5 sheets of white paper on the printed color patch image (adjustment pattern).
- 8) Press [EXECUTE] key.
  - The color balance adjustment is automatically performed, and the color balance check patch image is printed out.
- 9) When [OK] key is pressed, the adjustment result is registered and the adjustment mode is terminated. When [EXECUTE] key is pressed, the adjustment result is registered and the screen is shifted to the other item (Mode/Image) select menu.

To execute the adjustment of the other item (Mode/Image), press  $[\mathsf{EXECUTE}]$  key.

After completion of all the adjustments of the items (Mode/ Image), press [OK] key, and the adjustment results are registered.

10) Make a print, and check the print image quality.



Use SIM67-52 to reset the adjustment values to the default values.

# [6] TROUBLESHOOTING

## 1. Error code and troubleshooting

#### A. General

When a trouble occurs in the machine or when the life of a consumable part is nearly expired or when the life is expired, the machine detects and displays it on the display section. This allows the user and the serviceman to take the suitable action. In case of a trouble, this feature notifies the occurrence of a trouble and stops the machine to minimize the damage.

#### B. Function and purpose

- Securing safety. (The machine is stopped on detection of a trouble.)
- 2) The damage to the machine is minimized. (The machine is stopped on detection of a trouble.)
- By displaying the trouble content, the trouble position can be quickly identified. (This allows to perform an accurate repair, improving the repair efficiency.)
- 4) Preliminary warning of running out of consumable parts allows to arrange for new parts in advance of running out. (This avoids stopping of the machine due to running out the a consumable part.)

#### C. Self diag message kinds

The self diag messages are classified as shown in the table below.

Class 1	User	Warning of troubles which can be recovered by the user. (Paper jam, consumable part life expiration, etc.)
	Service	Warning of troubles which can be recovered only by a serviceman. (Motor trouble, maintenance, etc.)
	Others	-
Class 2	Warning	Warning to the user, not a machine trouble (Preliminary warning of life expiration of a consumable part, etc.)
	Trouble	Warning of a machine trouble. The machine is stopped.
	Others	=

#### D. Self diag operation

The machine always monitors its own state.

When the machine recognizes a trouble, it stops the operation and displays the trouble message.

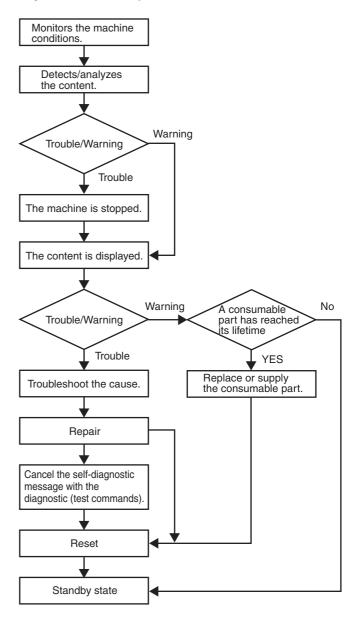
A warning message is displayed when a consumable part life is nearly expired or is expired.

When a warning message is displayed, the machine may be or may not be stopped.

The trouble messages and the warning messages are displayed by the LCD and lamp.

Some trouble messages are automatically cleared when the trouble is repaired. Some other troubles must be cleared by a simulation

Some warning messages of consumable parts are automatically cleared when the trouble is repaired. Some other warning messages must be cleared by a simulation.



# E. Breakdown sequence

# (1) Error code and operatable mode

## 18cpm/20cpm machine

					_		Operata	ble mod	de			_
Troubl	e content	Judg- ment block	Trouble code (20cpm machine)	Copy scan (including interrup- tion)	Scan (Push)	Scan (Pull)	Scan- To HDD	Print	List print	FAX Send	FAX print	FAST Notifi- cation to host
FAX board trouble	FAX board breakdown	MFP	F6 (00, 01, 04, 21, 30, 97, 98)	0	0	0	0	0	0	_	-	-
HDD trouble	SD card breakdown		E7(07)	×	×	×	×	×	×	×	×	×
	HDD breakdown	1	E7(03)	×	×	X	×	×	×	×	×	×
	HDD-ASIC breakdown		E7(04)	×	×	×	×	×	×	×	×	×
Scanner communication trouble	SCU communication error	•	A0(02) E7(80)	×	×	×	×	0	0	×	0	0
Engine communication trouble	PCU communication error		A0(01) E7(90)	×	×	×	×	×	×	×	×	0
Option communication trouble	ACU communication error		A0(04)	×	×	×	×	×	×	×	×	0
Printer port system trouble	Printer port system trouble		F9(91,92)	0	×	×	0	×	Δ	0	0	0
Backup battery voltage fall trouble	Backup battery voltage fall		U1(01)	×	×	×	×	×	×	×	×	0
Operation disable trouble 1	Controller fan trouble		L4(30)	×	×	×	×	×	×	×	×	×
Operation disable trouble 2	External serial I/     F communication     error (RIC)		U7(50,51)	×	×	×	×	×	×	×	×	0
	Memory error (included not installed the expansion RAM)		U2 (00, 05, 10, 11, 24, 40, 41, 42)	×	×	×	×	×	×	×	×	△15
	Connection trouble (Model data discrepancy) (MFPC detection)		A0 (10, 11, 15, 16, 20) E7 (60, 61, 65, 89)	×	×	×	×	×	×	×	×	×
	Serial number data error		U2 (30)	×	×	×	×	×	×	×	×	×
	HDD registration data check sum error		U2 (50)	×	×	×	×	×	×	×	×	0
Operation disable trouble 3	Memory check error when booting		E7 (95, 96)	×	×	×	×	×	×	×	×	0
	Image memory trouble, decode error		E7 (01, 91, 92, 93, 94)	×	×	×	×	×	×	×	×	0
	Image memory trouble, decode error (Image high compression)			×	△17	×	×	×	0	0	0	0
Operation disable trouble 4	Personal counter connection trouble		PC (00)	×	×	×	×	×	×	×	×	0
Power controller trouble	Power controller error		L8 (20)	×	×	×	×	×	×	×	×	0
Special function trouble	Watermark data error	1	P1 (00, 01, 02) U2 (60)	0	0	0	0	0	0	0	0	0

							Operata	ble mod	de			
Troub	le content	Judg- ment block	Trouble code (20cpm machine)	Copy scan (including interrup- tion)	Scan (Push)	Scan (Pull)	Scan- To HDD	Print	List print	FAX Send	FAX print	FAST Notifi- cation to host
Laser trouble	LSU breakdown	PCU	E7 (20, 28, 29) L6 (10)	×	×	×	×	×	×	×	× *10	0
Engine trouble 1	Connection trouble (Model data discrepancy) (PCU detection)		A0 (21) E7 (50, 55) F1 (50)	×	×	×	×	×	×	×	×	×
Engine trouble 2	PCU troubles (motor, fusing, etc.)		C1 (10,14) C4 (00) F2 (22, 40, 64, 70, 74, 91) H2 (00, 01, 02, 03) H3 (00, 01, 02) H4 (00, 01, 02) H5 (01) H7 (10) L4 (02, 03, 04, 05, 06, 11, 12, 16, 31, 32, 35, 43, 50, 51) L8 (01) U2 (90, 91)	×	×	×	×	×	×	×	* *10	0
Process system trouble	LSU/Process system breakdown		E7 (21, 22, 23) F2 (23, 24, 25, 41, 42, 43, 65, 66, 67, 71, 72, 73, 75, 76, 77, 92, 93, 94)	× *19	× *19	× *19	× *19	*19	*19	× *19	*10 *19	0
Paper feed tray 1 trouble	Paper feed tray 1 breakdown		F3 (12)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 2 trouble	Paper feed tray 2 breakdown		F3 (22)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 3 trouble	Paper feed tray 3     breakdown		U6 (01)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 4 trouble	Paper feed tray 4     breakdown		U6 (02)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 5 trouble	Paper feed tray 5 breakdown		U6 (52)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray other troubles	Paper feed tray other breakdown		U6 (00, 10, 50)	△11	0	0	0	△11	△11	0	△11 *10	0
Staple trouble	Staple     breakdown		F1 (08, 10)	△4	△4	△4	△4	△4	△4	△4	∆4 *10	0
Saddle stitch section trouble	Saddle stitch section breakdown			△4	△4	△4	△4	△4	△4 *10	△4	△4	0
Finisher trouble	After-process     breakdown		F1 (00, 03, 15, 19, 20, 21, 33, 34, 37)	△4	△4	△4	△4	△4	△4	△4	∆4 *10	0
Other troubles	Other troubles	_	EE (EC, EL, EU)	0	0	0	0	0	0	0	0	0
Process control trouble	<ul> <li>Process control breakdown (PCU detection)</li> </ul>		F2 (39, 49, 50, 51, 58, 78)	O *12	0	0	0	0	0	0	0	0
Operation disable trouble	Connection trouble (Model data discrepancy) (SCU detection)	SCU	A0 (22)	×	×	×	×	×	×	×	×	×
SCU CPT ASIC trouble	SCU CPT ASIC error		UC (02)	△9	△9	△9	△9	0	0	△9	0	0
SCU ASIC trouble (SCU detection)	SCU ASIC error (SCU detection)		UC (20)	×	×	×	×	0	0	×	0	0
Scanner trouble 1	SCU EEPROM error		U2 (80, 81)	×	×	×	×	0	0	×	0	0
Scanner trouble 2	Scanner section breakdown (mirror motor, lens, copy lamp)		L1 (00) L3 (00)	×	×	×	×	0	0	×	0	0
CCD trouble	CCD breakdown (shading, etc.)		E7 (10, 11, 14)	×	×	×	×	0	0	×	0	0

## 23cpm/26cpm/31cpm/36cpm machine

			Trouble	Trouble				Operata	ble mod	de			
Troub	le content	Judg- ment block	code (23cpm/ 31cpm(G) machine)	code (26cpm/ 36cpm/ 31cpm(A) machine)	Copyscan (including interrup- tion)	Scan (Push)	Scan (Pull)	Scan- To HDD	Print	List print	FAX Send	FAX print	FAST Notifi- cation to host
FAX board trouble	FAX board breakdown	MFP	F6 (00, 01, 04, 21, 30, 97, 98)	F6 (00, 01, 04, 21, 30, 97, 98)	0	0	0	0	0	0	-	-	-
HDD trouble	SD card breakdown		E7 (07)	E7 (07)	×	×	×	×	×	×	×	×	×
	HDD breakdown		E7 (03)	E7 (03)	×	×	×	×	×	×	×	×	×
	HDD-ASIC breakdown		E7 (04)	E7 (04)	×	×	×	×	×	×	×	×	×
Scanner communication trouble	SCU communication error		A0 (02) E7 (80)	A0 (02) E7 (80)	×	×	×	×	0	0	×	0	0
Engine communication trouble	PCU communication error		A0 (01) E7 (90)	A0 (01) E7 (90)	×	×	×	×	×	×	×	×	0
Option communication trouble	ACU communication error		A0 (04)	A0 (04, 05)	×	×	×	×	×	×	×	×	0
Printer port system trouble	Printer port     system trouble		F9 (91, 92)	F9 (91, 92)	0	×	×	0	×	Δ	0	0	0
Backup battery voltage fall trouble	Backup battery voltage fall		U1 (01)	U1 (01)	×	×	×	×	×	×	×	×	0
Operation disable trouble 1	Controller fan trouble		L4 (30)	L4 (30)	×	×	×	×	×	×	×	×	×
Operation disable trouble 2	External serial I/     F communication     error (RIC)		U7 (50, 51)	U7 (50, 51)	×	×	×	×	×	×	×	×	0
	Memory error (included not installed the expansion RAM)		U2 (00, 05, 10, 11, 24, 40, 41, 42)	U2 (00, 11, 40, 41, 42)	×	×	×	×	×	×	×	×	△15
	Connection trouble (Model data discrepancy) (MFPC detection)		A0 (10, 11, 15, 16, 20) E7 (60, 61, 65, 89)	A0 (10, 11, 14, 15, 16, 17, 20) E7 (60, 61, 65, 89)	×	×	×	×	×	×	×	×	×
	Serial number data error		U2 (30)	U2 (30)	×	×	×	×	×	×	×	×	×
	HDD registration data check sum error		U2 (50)	U2 (50)	×	×	×	×	×	×	×	×	0
Operation disable trouble 3	Memory check error when booting		E7 (95, 96)	E7 (95, 96)	×	×	×	×	×	×	×	×	0
	Image memory trouble, decode error		E7 (01, 49, 91, 92, 93, 94)	E7 (01, 49, 91, 92, 93, 94)	×	×	×	×	×	×	×	×	0
	Image memory trouble, decode error (Image high compression)			E7 (42, 46, 48)	×	△17	×	×	×	0	0	0	0
Operation disable trouble 4	Personal counter connection trouble		PC (00)	PC (00)	×	×	×	×	×	×	×	×	0
Power controller trouble	Power controller error		L8 (20)	L8 (20)	×	×	×	×	×	×	×	×	0
Special function trouble	Watermark data error		U2 (60) P1 (00, 01, 02)	U2 (60) P1 (00, 01, 02)	0	0	0	0	0	0	0	0	0

			Trouble	Trouble				Operata	ble mod	de			
Troub	le content	Judg- ment block	code (23cpm/ 31cpm(G) machine)	code (26cpm/ 36cpm/ 31cpm(A) machine)	Copy scan (including interrup- tion)	Scan (Push)	Scan (Pull)	Scan- To HDD	Print	List print	FAX Send	FAX print	FAST Notifi- cation to host
Laser trouble	LSU breakdown	PCU	E7 (20, 28, 29) L6 (10)	E7 (20, 24, 28, 29, A0) L6 (10)	×	×	×	×	×	×	×	× *10	0
Engine trouble 1	Connection trouble (Model data discrepancy) (PCU detection)		A0 (21) E7 (50, 55) F1 (50)	A0 (21) E7 (50, 55) F1 (50)	×	×	×	×	×	×	×	×	×
Engine trouble 2	PCU troubles (motor, fusing, etc.)		C1 (10, 14) C4 (00) F2 (22, 40, 64, 70, 74, 91) H2 (00, 01, 02, 03) H3 (00, 01, 02, 30) H5 (01) H7 (10, 11, 12) L4 (02, 03, 04, 05, 06, 11, 12, 16, 31, 32, 35, 43, 50, 51) L8 (01) U2 (90, 91)	C1 (10, 14) C4 (00) F2 (22, 40, 64, 70, 74, 91) H2 (00, 01, 02, 03) H3 (00, 01, 02, 30) H5 (01) H7 (10, 11, 12) L4 (02, 03, 04, 05, 06, 07, 11, 12, 16, 29, 31, 32, 34, 35, 43, 50, 51) L8 (01) U2 (90, 91)	×	×	×	×	×	×	×	× *10	0
Process system trouble	LSU/Process system breakdown		E7 (21, 22, 23) F2 (23, 24, 25, 41, 42, 43, 65, 66, 67, 71, 72, 73, 75, 76, 77, 92, 93, 94)	E7 (21, 22, 23, 25, 26, 27, A1, A2, A3) F2 (23, 24, 25, 41, 42, 43, 65, 66, 67, 71, 72, 73, 75, 76, 77, 92, 93, 94)	*19	*19	*19	*19	*19	*19	× *19	*10 *19	0
Paper feed tray 1 trouble	Paper feed tray 1     breakdown		F3 (12)	F3 (12)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 2 trouble	Paper feed tray 2 breakdown		F3 (22)	F3 (22)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 3 trouble	Paper feed tray 3 breakdown		U6 (01)	U6 (01)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 4 trouble	Paper feed tray 4     breakdown		U6 (02)	U6 (02)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray 5 trouble	Paper feed tray 5 breakdown		U6 (52)	U6 (03, 09, 20, 21, 22, 51, 52)	△3	0	0	0	△3	△3	0	∆3 *10	0
Paper feed tray other troubles	Paper feed tray other breakdown		U6 (00, 10, 50)	U6 (00, 10, 50)	△11	0	0	0	△11	△11	0	△11 *10	0
Staple trouble	Staple breakdown		F1 (08, 10)	F1 (08, 10)	△4	△4	△4	△4	△4	△4	△4	△4 *10	0
Saddle stitch section trouble	Saddle stitch section breakdown			F1 (31, 41, 43, 45, 47)	△4	△4	△4	△4	△4	△4 *10	△4	△4	0
Finisher trouble	After-process breakdown		F1 (00, 03, 15, 19, 20, 21, 33, 34, 37)	F1 (00, 03, 11, 15, 19, 20, 21, 32, 33, 34, 36, 37, 38, 39)	△4	△4	△4	△4	△4	△4	△4	△4 *10	0
Other troubles	Other troubles		EE (EC, EL, EU)	EE (EC, EL, EU)	0	0	0	0	0	0	0	0	0
Process control trouble	Process control breakdown (PCU detection)		F2 (39, 49, 50, 51, 58, 78)	F2 (39, 49, 50, 51, 58, 78)	O *12	0	0	0	0	0	0	0	0

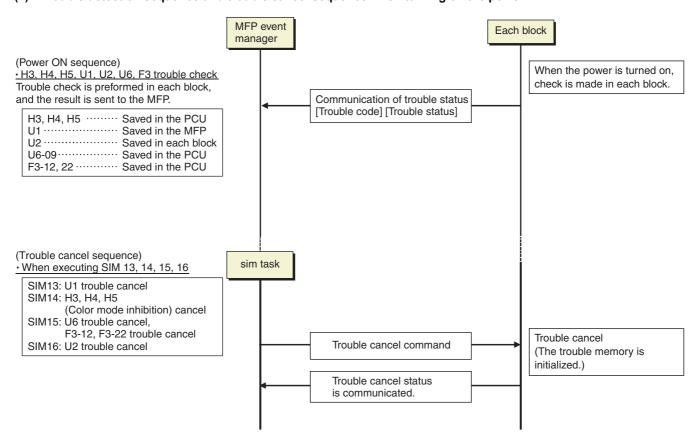
			Trouble	Trouble				Operata	ble mod	de					
Troub	le content	Judg- ment block	code (23cpm/ 31cpm(G) machine)	code (26cpm/ 36cpm/ 31cpm(A) machine)	Copy scan (including interrup- tion)	Scan (Push)	Scan (Pull)	Scan- To HDD	Print	List print	FAX Send	FAX print	FAST Notifi- cation to host		
Operation disable trouble	Connection trouble (Model data discrepancy) (SCU detection)	SCU	A0 (22)	A0 (22)	×	×	×	×	×	×	×	×	×		
SCU CPT ASIC trouble	SCU CPT ASIC error		UC (02)	UC (02)	△9	△9	△9	△9	0	0	△9	0	0		
SCU ASIC trouble (SCU detection)	SCU ASIC error (SCU detection)		UC (20)	UC (20)	×	×	×	×	0	0	×	0	0		
Scanner trouble	SCU EEPROM error		U2 (80, 81)	U2 (80, 81)	×	×	×	×	0	0	×	0	0		
Scanner trouble 2	Scanner section breakdown (mirror motor, lens, copy lamp)		L1 (00) L3 (00)	L1 (00) L3 (00)	×	×	×	×	0	0	×	0	0		
CCD trouble	CCD breakdown (shading, etc.)		E7 (10, 11, 14)	E7 (10, 11, 14)	×	×	×	×	0	0	×	0	0		

#### Error where only history data are saved

						Operata	ble mod	le			
Trouble content	Judg- ment block	Trouble code	Copy scan (including interrup- tion)	Scan (Push)	Scan (Pull)	Scan- To HDD	Print	List print	FAX Send print  O O O O	FAST Notifi- cation to host	
Error history	PCU	F2 (45)	0	0	0	0	0	0	0	0	0
Error history	MFP	E7 (02)*20 U2 (05)*20	0	0	0	0	0	0	0	0	0

- O: Operation enabled X: Operation disabled
- $\triangle$ 1: The operation is enabled in a line other than the trouble line.
- $\triangle$ 3: When detected during other than a job, the operation is enabled with a tray other than the trouble tray.
- $\triangle$ 4: When detected during other than a job, the operation is enabled in a section other than the trouble paper exit section. \* However, it is valid only when the escape tray setting has been made.
- $\triangle$ 9: When detected during other than a job, the operation is enabled in the black and white mode.
- \*10: Since communication is enabled, reception can be transferred.
- △11: When detected during other than a job, the operation is enabled in other than the DESK and the LCC.
- \*12: A trouble message is displayed. (Example: Ready to copy. F2 trouble)
- $\triangle$ 15: FAST notification function (When in U2-22, trouble notification cannot be made. If there is no abnormality in the FAX software or the FAST data in U2-23, trouble notification can be made.)
- △17: Job execution enable only in a format other than high compression PDF.
- \*19: When the color mode is set to disable in the "Color mode disable setting" of the system setting, the operation is enabled in the black and white mode.
- \*20: 26cpm/31cpm/36cpm machine only

#### (2) Trouble detection sequence and trouble cancel sequence when turning on the power



#### The process has priority when the power is turned ON with the MFP.

When booting, two or more troubles in the list below may be detected. In this case, the trouble code of higher priority is displayed.

Process sequence	Error	code	Content
	U2	60	Watermark check error
		50	HDD user authentication data check sum error
		30	MFPC PWB and PCU PWB manufacturing No. data inconsistency
		24	User authentication counter check sum error
First		10	User authentication index check sum error
(Low priority)	A0	15	Incompatible DSK BOOT and program firmware
		20	Conflict firmware and EEPROM data version (MFP)
Τ	U2	11	MFPC PWB EEPROM counter check sum error
1		00	MFP EEPROM read/write error
*	E7	48	Scanner expansion PWB (ACRE) ASIC memory error
Last		42	Image data trouble (Scanner expansion PWB (ACRE) ASIC)
(High priority)		96	MFPC PWB DIMM memory check error (MFPC PWB)
, , , , , , , , , , , , , , , , , , , ,		95	Printer PWB DIMM memory check error (PRINTER section)
	U1	01	Battery trouble
	E7	60	Combination error between PWB and firmware (MFPC PWB detection)
	A0	04	Scanner expansion PWB (ACU) (ACRE) ROM error

## F. Error code list

	ıble							
co Main	Sub	Trouble content	Trouble detection	Mechanism	Option	Electricity	FAX	Supply
A0	code 01	PCU PWB ROM error	MFP			0		
AU	02	SCU PWB ROM error	MFP			0		
	04	Scanner expansion PWB (ACU) (ACRE) ROM error	MFP			0		
	05	Scanner expansion PWB (ACU) (ACRE) firmware error	MFP			0		
	10	Color profile error	MFP			0		
	11	Firmware version inconsistency (MFP - PCU)	MFP			0		
	14	Inconsistency between the MFP and the CPU firmware version	MFP			0		
	15	Incompatible DSK BOOT and program firmware	MFP			0		
	16 17	Data error of the energy-saving NIC controller firmware in the SD card Inconsistency between the UI data and the CPU firmware version	MFP MFP			0		
	20	Conflict firmware and EEPROM data version (MFP)	MFP			0		
	21	Conflict firmware and EEPROM data version (PCU)	PCU			0		
	22	Conflict firmware and EEPROM data version (SCU)	SCU			0		
C1	10	Main charger trouble (Monochrome)	PCU			0		
	14	Main charger trouble (Color)	PCU			0		
C4	00	PTC trouble (TC high voltage trouble)	PCU			0		
E7	01	MFP image data error	MFP			0		
	02	HDD trouble when the mirroring kit is installed	MFP MFP		0	0	-	
	03 04	HDD trouble / Mirroring kit error HDD-ASIC error	MFP		<del> </del>	0	<del>                                     </del>	
	07	SD card error	MFP		<u> </u>	0		
	10	Shading error (Black correction)	SCU			0		
	11	Shading error (White correction)	SCU			0		
	14	CCD-ASIC error	SCU			0		
	20	LSU laser detection error (K)	PCU			0		
	21	LSU laser detection error (C)	PCU			0		
	22	LSU laser detection error (M)	PCU			0		
	23	LSU laser detection error (Y)	PCU			0		
	24 25	LSULD driver error (K)	PCU PCU			0		
	26	LSU LD driver error (C) LSU LD driver error (M)	PCU			0		
	27	LSU LD driver error (Y)	PCU			0		
	28	LSU - PCU connection error	PCU			0		
	29	LSU ASIC frequency error	PCU			0		
	42	Image data trouble (Scanner expansion PWB (ACRE) ASIC)	MFP			0		
	46	Image data decode error (Scanner expansion PWB (ACRE) ASIC)	MFP			0		
	48	Scanner expansion PWB (ACRE) ASIC memory error	MFP			0		
	49	Water Mark data error	MFP			0		
	50 55	Combination error between PWB and firmware (PCU PWB detection) PCU PWB information sum error	PCU PCU			0		
	60	Combination error between PWB and firmware (MFPC PWB detection)	MFP			0		
	61	Combination error between the MFPC PWB and the PCU PWB	MFP			0		
		(MFPC PWB detection)						
	65	MFP EEPROM sum check error	MFP			0		
	80	MFP - SCU PWB communication error	MFP			0		
	89	Communication error between MFPC PWB CPU and energy-saving NIC controller	MFP			0		
	90	MFP - PCU PWB communication error	MFP			0		
	91	FAX reception image data error	MFP		ļ	_	0	
	92	Copy image data error	MFP			0		
	93	Copy, image send, FAX, filing, print image data process error  Image file data process error (when importing file data)	MFP MFP		<del>                                     </del>	0		
	94 95	Printer PWB DIMM memory check error	MFP		<del>                                     </del>	0		
	96	MFPC PWB DIMM memory check error	MFP			0	<del>                                     </del>	
	A0	LSU LD PWB EEPROM read/write error (K)	PCU			0		
	A1	LSU LD PWB EEPROM read/write error (C)	PCU		1	0		
	A2	LSU LD PWB EEPROM read/write error (M)	PCU			0		
	A3	LSU LD PWB EEPROM read/write error (Y)	PCU			0		
EE	EC	Automatic toner density adjustment error	PCU			0		
	EL	Automatic toner density adjustment error (Over toner)	PCU		ļ	0		
-·	EU	Automatic toner density adjustment error (Under toner)	PCU			0		
F1	00	Finisher - PCU PWB communication error Finisher paper exit roller lifting operation trouble	PCU PCU		0		-	
	08	Stapler shift trouble	PCU		0			
	10	Staple operation trouble	PCU		0			
	11	Finisher grip motor trouble	PCU		0			
	15	Finisher paper exit tray lift operation trouble	PCU		0			

Trou			Trouble					
Main code	Sub code	Trouble content	detection	Mechanism	Option	Electricity	FAX	Supply
F1	19	Finisher alignment operation trouble F	PCU		0			
	20	Finisher alignment operation trouble R	PCU		0			
	21	Finisher fan trouble	PCU		0			
	31	Finisher saddle motor trouble (Saddle stitch finisher)	PCU		0			
	32	Communication error between the finisher and the punch unit	PCU		0			
		(Saddle stitch finisher)			_			
	33	Punch unit shift operation trouble	PCU		0			
	34	Punch operation trouble	PCU		0			
	36 37	Punch paper edge detection error	PCU PCU		0			
	38	Finisher data backup RAM error Punch data backup RAM error	PCU		0			
	39	Punch paper dust sensor error	PCU		0			
	41	Saddle paper positioning operation trouble	PCU		0			
	43	Saddle alignment operation trouble	PCU		0			
	45	Saddle staple trouble	PCU		0			
	47	Saddle paper transport motor trouble	PCU		0			
	50	Main unit - Finisher combination error	PCU		0			
F2	22	Discharge lamp trouble (K)	PCU					0
	23	Discharge lamp trouble (C)	PCU					0
	24	Discharge lamp trouble (M)	PCU					0
	25	Discharge lamp trouble (Y)	PCU					0
	39	Process thermistor trouble	PCU					0
	40	Toner density sensor trouble (K)	PCU					0
	41	Toner density sensor trouble (C)	PCU					0
	42	Toner density sensor trouble (M)	PCU					0
	43	Toner density sensor trouble (Y)	PCU					0
	45	Color image density sensor trouble	PCU					0
	49	LSU thermistor trouble	PCU					0
	50	K drum phase sensor trouble	PCU					0
	51	CL drum phase sensor trouble	PCU					0
	58	Temperature/humidity sensor trouble (HUD_M/TH_M)	PCU					0
	64	Toner supply operation trouble (K)	PCU					0
	65 66	Toner supply operation trouble (C)	PCU PCU					0
	67	Toner supply operation trouble (M)  Toner supply operation trouble (Y)	PCU					0
	70	Improper toner cartridge detection (K)	PCU					0
	71	Improper toner cartridge detection (C)	PCU					0
	72	Improper toner cartridge detection (M)	PCU					0
	73	Improper toner cartridge detection (Y)	PCU					0
	74	Toner cartridge CRUM error (K)	PCU					0
	75	Toner cartridge CRUM error (C)	PCU					0
	76	Toner cartridge CRUM error (M)	PCU					0
	77	Toner cartridge CRUM error (Y)	PCU					0
	78	Registration/BK image density sensor trouble	PCU					0
		(Transfer belt substrate reflection rate abnormality)						
	91	High density process control high voltage error (K)	PCU					0
	92	High density process control high voltage error (C)	PCU					0
	93	High density process control high voltage error (M)	PCU					0
	94	High density process control high voltage error (Y)	PCU	_			ļ	0
F3	12	Paper feed tray 1 lift operation trouble	PCU	0			-	
F^	22	Paper feed tray 2 lift operation trouble	PCU	0			_	
F6	00	MFPC PWB - FAX communication trouble	MFP				0	
	01	FAX MODEM exercises trouble	FAX				0	
	04	FAX MODEM operation trouble	FAX				0	
	21	Improper combination of TEL/LIU PWB and FAX soft switch	MFP MFP				0	
	30 97	FAX 1-chip microprocessor access error (FAX detection) Incompatibility between FAX control PWB and the main machine	MFP				0	
	98	Incompatibility between FAX control PWB destination and the main machine destination	MFP				0	
F9	91	Communication error between MFP and the printer section when booting	MFP					
	92	Printer (section) PWB hardware error	PRINTER (section) PWB			0		
H2	00	Thermistor open trouble (TH UM AD2)	PCU	0			-	
1 12	01	Thermistor open trouble (TH_OM_ADZ)  Thermistor open trouble (TH_LM)	PCU	0			-	
	υı		PCU	0			1	
	02	Thermistor open trouble (TH_US)						

	uble							
CO Main	de Sub	Trouble content	Trouble detection	Mechanism	Option	Electricity	FAX	Supply
code	code		4010011011					
H3	00	Fusing section high temperature trouble (TH_UM)	PCU	0				
	01	Fusing section high temperature trouble (TH_LM)	PCU	0				
	02	Fusing section high temperature trouble (TH_US)	PCU	0				
H4	00	Fusing section low temperature trouble (TH_UM_AD2)	PCU	0			ty FAX	
	01	Fusing section low temperature trouble (TH_LM)	PCU	0				
H5	02 01	Fusing section low temperature trouble (TH_US)  5 times continuous POD1 not-reach jam	PCU PCU	0				
H7	10	Recovery error from low fuser temp. (TH_UM_AD2)	PCU	0				
	11	Recovery error from low fuser temp. (TH_LM)	PCU	0				
L1	00	Scanner feed trouble	SCU	0				
L3	00	Scanner return trouble	SCU	0				
L4	02	Paper feed motor trouble	PCU			0		
	03	Fusing motor trouble	PCU			0		
	04	Developing motor trouble (BLACK)	PCU			0		
	05	Developing motor trouble (COLOR)	PCU			0		
	06	Transfer unit lift trouble	PCU					
	07	Transfer belt motor trouble	PCU					
	11	Shift motor trouble	PCU			0		
	12 16	Secondary transfer separation trouble	PCU PCU	0		_	-	
	31	Fusing pressure release trouble  Paper exit cooling fan trouble	PCU		-			
	32	Paper exit cooling fan trouble  Power source cooling fan trouble	PCU		<del>                                     </del>			
	34	LSU cooling fan trouble	PCU		<u> </u>			
	35	Fusing cooling fan trouble	PCU					
	43	Paper exit cooling fan 2 trouble	PCU			0		
	50	Process fan trouble	PCU			0		
	51	Process fan 2 trouble	PCU			0		
L6	10	Polygon motor trouble	PCU			0		
L8	01	Full wave signal detection error	PCU			0		
	20	Communication error of MFPC PWB/LSU mother board	MFP			0		
P1	00	PCI communication error	MFP		0			
	01	PCI fan error	MFP		0			
DC	02	Plasma generating device error	MFP MFP		0			
PC U1	- 01	Personal counter not detected  Battery trouble	MFP	0		_		
U2	00	MFP EEPROM read/write error	MFP					
UZ	05	HDD/MFPC PWB SRAM contents inconsistency	MFP					
		(18cpm/20cpm/23cpm/31cpm(G) machine)						
	05	Erroneous detection of account management data / HDD internal	MFP			0	/ FAX	
		authentication DB table error (26cpm/36cpm/31cpm(A) machine)						
	10	MFPC PWB SRAM user authentication index check sum error	MFP			0		
	11	MFPC PWB EEPROM counter check sum error	MFP			0		
	24	MFPC PWB SRAM memory user authentication counter check sum error	MFP					
	30	MFPC PWB and PCU PWB manufacturing No. data inconsistency	MFP					
	40	SD card system storage data area error	MFP		<del>                                     </del>		-	
	41	HDD system storage data area error	MFP					
	42 50	Machine adjustment data (system storage data area) error  HDD user authentication data check sum error	MFP MFP		<del>                                     </del>			
	60	Watermark check error	MFP				<u> </u>	
	80	SCU PWB EEPROM read/write error	SCU					
	81	SCU PWB EEPROM check sum error	SCU		<b>†</b>			
	90	PCU PWB EEPROM read/write error	PCU		1			
	91	PCU PWB EEPROM check sum error	PCU		İ			
U6	00	PCU PWB - Paper feed desk (paper feed tray 3, 4) communication trouble	PCU			0		
	01	Desk paper feed tray 1 lift trouble	PCU		0			
	02	Desk paper feed tray 2 lift trouble	PCU		0			
	09	LCC lift motor trouble	PCU		0			ļ
	10	Desk paper feed unit paper transport motor trouble	PCU		0			
	20	LCC control PWB - PCU PWB communication error	PCU		0			
	21	LCC transport motor trouble	PCU		0			
	22	LCC 24V power trouble	PCU		0			
	50 51	Desk - Main unit combination trouble  LCC - Main unit combination trouble	PCU PCU		0			
	51 52	PCU PWB - Paper feed desk (paper feed tray 2) communication trouble	PCU			0		
U7	50	MFPC PWB - Vendor machine communication error	MFP				<del>                                     </del>	
٥,	51	Vendor machine error	MFP		<u> </u>			
				<b> </b>	1		<del>                                     </del>	
UC	02	CPT - ASIC error	SCU			0		

## A0-01 PCU PWB ROM error

Trouble content	
Detail	MFP
Cause	The firmware version-up is not completed properly by interruption of the power during the version-up operation, etc. PCU PWB trouble.
Check & Remedy	Use SIM49-1 to perform the firmware version-up procedure again. Replace the PCU PWB.

## A0-02 SCU PWB ROM error

Trouble content	
Detail	MFP
Cause	The firmware version-up is not completed properly by interruption of the power during the version-up operation, etc. SCU PWB trouble.
Check & Remedy	Use SIM49-1 to perform the firmware version-up procedure again. Replace the SCU PWB.

# A0-04 Scanner expansion PWB (ACU) (ACRE) ROM error

Trouble content	
Detail	MFP
Cause	Scanner expansion PWB (ACU) (ACRE) ROM data error. An error occurs during firmware upgrading for some reasons.
Check & Remedy	Perform firmware upgrading again.

# A0-05 Scanner expansion PWB (ACU) (ACRE) firmware error

Trouble content	
Detail	MFP
Cause	Improper firmware
	A firmware of a different model is installed. A ROM of
	a different model is installed.
Check & Remedy	Replace the ROM with a proper one.
	Write the proper firmware. (Upgrade to the proper
	firmware.)

# A0-10 Color profile error

Trouble content	Color profile error
Detail	MFP
Cause	The content of the color profile is abnormal.  Combination error between the MFPC PWB firmware and the color profile
Check & Remedy	Upgrade the firmware collectively. Replace the MFPC PWB.

# A0-11 Firmware version inconsistency (MFP - PCU)

Trouble content	
Detail	MFP
Cause	Firmware combination error between the MFP and the PCU.
Check & Remedy	Install the firmware in the all-firmware version-up mode.

# A0-14 Inconsistency between the MFP and the CPU firmware version

Trouble content	
Detail	MFP
Cause	Combination error between the MFP and the CPU UI firmware version.
Check & Remedy	Install the firmware in the all-firmware version-up mode.

# A0-15 Incompatible DSK BOOT and program firmware

Trouble content	
Detail	MFP
Cause	Installation of the normal firmware was performed with a security kit enable.
Check & Remedy	Stop installation of the normal firmware.

# A0-16 Data error of the energy-saving NIC controller firmware in the SD card

Trouble content	Data error of the energy-saving NIC controller firmware in the SD card.
Detail	MFP
Cause	SD card trouble. MFPC PWB trouble.
Check & Remedy	Reinstall the firmware. Replace the SD card. Replace the MFPC PWB.

# A0-17 Inconsistency between the UI data and the CPU firmware version

Trouble content	
Detail	MFP
Cause	Combination error between the UI contents data and the CPU UI firmware version.
Check & Remedy	Install the firmware in the all-firmware version-up mode.

# A0-20 Conflict firmware and EEPROM data version (MFP)

Trouble content	
Detail	MFP
Cause	Inconsistency between the MFP firmware version and the EEPROM data version.
Check & Remedy	Check the combination of the firmware.

# A0-21 Conflict firmware and EEPROM data version (PCU)

Trouble content	
Detail	PCU
Cause	Inconsistency between the PCU firmware version and the EEPROM data version.
Check & Remedy	Check the combination of the firmware.

# A0-22 Conflict firmware and EEPROM data version (SCU)

Trouble content	
Detail	SCU
Cause	Inconsistency between the SCU firmware version and the EEPROM data version.
Check & Remedy	Check the combination of the firmware.

# **C1-10** Main charger trouble (Monochrome)

Trouble content	
Detail	PCU
Cause	The main charger unit (BK) is not installed properly. There is an abnormality in the main charger unit (BK). The developer unit (KCMY) is not installed properly. There is an abnormality in the developer unit (KCMY).  Disconnection of the high voltage MC PWB connector.  Breakage of the high voltage harness.  High voltage MC PWB trouble.  PCU PWB trouble.
Check & Remedy	Check the output of the main charger with SIM8-2. Check the output of the developing bias with SIM8-1. Check disconnection of the main charger./Replace. Check disconnection of the developer unit./Replace. Check disconnection of the high voltage MC PWB connector./Replace. Replace the high voltage MC PWB. Replace the PCU PWB.

# C1-14 Main charger trouble (Color)

Trouble content	
Detail	PCU
Cause	The main charger unit (CMY) is not installed properly. There is an abnormality in the main charger unit (CMY). Disconnection of the high voltage MC PWB connector. Breakage of the high voltage harness. High voltage MC PWB trouble. PCU PWB trouble.
Check & Remedy	Check the output of the main charger with SIM8-2. Check disconnection of the main charger./Replace. Check disconnection of the high voltage MC PWB connector./Replace. Replace the high voltage MC PWB Replace the PCU PWB.

# C4-00 PTC trouble (TC high voltage trouble)

Trouble content	
Detail	PCU
Cause	The PTC unit is not installed properly./Trouble. The primary transfer unit is not installed properly./ Trouble. The secondary transfer unit is not installed properly./ Trouble. High voltage TC PWB trouble. PCU PWB trouble. Connection trouble of the connector and the harness.
Check & Remedy	Replace the PTC unit. Replace the primary transfer unit. Replace the secondary transfer unit. Check disconnection of the high voltage TC PWB connector./Replace. Replace the high voltage TC PWB. Replace the PCU PWB.

# E7-01 MFP image data error

Trouble content	
Detail	MFP
Cause	Image data transfer error in the MFPC PWB. MFPC PWB trouble.
Check & Remedy	Check connection of the connector and the harness of the MFPC PWB. Check or replace the MFPC PWB.

# E7-02 HDD trouble when the mirroring kit is installed

Trouble content	
Detail	MFP
Cause	When installing the mirroring kit, the HDD of the machine or the HDD of the mirroring kit breaks down or connection fails.  • Defective installation of the mirroring kit  • Breakdown of the HDD of the mirroring kit  • Breakdown of the HDD of  • Defective connection between the HDD and the mirroring kit harness  • MFP PWB trouble
Check & Remedy	Use SIM62-20 to check the trouble. Check installation of the mirroring kit (connector and harness), and replace if necessary. Replace the broken HDD. Replace the mirroring kit. Replace the MFP PWB.

## E7-03 HDD trouble / Mirroring kit error

Trouble content	
Detail	MFP
Cause	Connector, harness connection trouble in the MFPC PWB and HDD. HDD (error file management area) data abnormality (FAT breakage). MFPC PWB trouble.
	(When the mirroring kit is installed) RAID PWB trouble. A HDD which has been used for mirroring is installed. Both HDD's go into trouble under the use environment of mirroring.
Check & Remedy	Check connection of the connector and the harness of the MFPC PWB and HDD. Use SIM62-2, 3 to check read/write operations of the HDD. Replace the HDD. Check or replace the MFPC PWB. (When the mirroring kit is installed) Check the RAID PWB, and replace if necessary. Replace the HDD.
	(For details, refer to the HDD and RAID PWB replacement procedures under mirroring environment.)

## E7-04 HDD-ASIC error

Trouble content	
Detail	MFP
Cause	HDD-ASIC trouble. (MFPC PWB trouble.) An error occurs in the HDD-ASIC self test when booting.
Check & Remedy	Check or replace the MFPC PWB.

# E7-07 SD card error

Trouble content	
Detail	MFP
Cause	SD card trouble or contact error MFPC PWB trouble.
Check & Remedy	Replace the SD card. Check the SD card socket. Replace the MFPC PWB.

# E7-10 Shading error (Black correction)

Trouble content	
Detail	SCU
Cause	Abnormality in the CCD black scan level when the scanner lamp is turned OFF. Improper installation of the harness to the CCD unit. CCD unit abnormality. SCU PWB abnormality.
Check & Remedy	Check connection of the harness to the CCD unit. Check the CCD unit. Check the SCU PWB.

# E7-11 Shading error (White correction)

Trouble content	
Detail	SCU
Cause	Abnormality in the CCD white reference plate scan level when the scanner lamp is turned ON. Improper installation of the harness to the CCD unit. Dirt on the mirror, lens, and the reference white plate. Scanner lamp lighting trouble. Scanner lamp drive PWB trouble CCD unit abnormality. SCU PWB abnormality.
Check & Remedy	Check connection of the harness to the CCD unit. Check connection of the harness to the scanner lamp unit. Check or replace the scanner lamp. Check or replace the scanner lamp drive PWB. Clean or replace the mirror, the lens, and the reference white board. Check or replace the CCD unit. Check or replace the SCU PWB.

## E7-14 CCD-ASIC error

Trouble content	
Detail	SCU
Cause	SCU PWB trouble.
Check & Remedy	Check the SCU PWB.
	Replace the SCU PWB.

## E7-20 LSU laser detection error (K)

Trouble content	
Detail	PCU
Cause	Laser optical axis misalignment Reduced laser power, lighting error, laser diode trouble. LSU harness, connector trouble LSU trouble
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check or replace the LSU control PWB. Check connection of the LSU harness. Replace the LSU.

# E7-21 LSU laser detection error (C)

Trouble content	
Detail	PCU
Cause	Laser optical axis misalignment Reduced laser power, lighting error, laser diode trouble. LSU harness, connector trouble LSU trouble
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check or replace the LSU control PWB. Check connection of the LSU harness. Replace the LSU.

# E7-22 LSU laser detection error (M)

Trouble content	
Detail	PCU
Cause	Laser optical axis misalignment
	Reduced laser power, lighting error, laser diode
	trouble.
	LSU harness, connector trouble
	LSU trouble
Check & Remedy	Use SIM61-1 to check the operation of the LSU.
	Check or replace the LSU control PWB.
	Check connection of the LSU harness.
	Replace the LSU.

# E7-23 LSU laser detection error (Y)

Trouble content	
Detail	PCU
Cause	Laser optical axis misalignment Reduced laser power, lighting error, laser diode trouble. LSU harness, connector trouble LSU trouble
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check or replace the LSU control PWB. Check connection of the LSU harness. Replace the LSU.

# E7-24 LSU LD driver error (K)

Trouble content	
Trouble content	
Detail	PCU
Cause	When lighting the LSU LD, initialization of the LD driver is not performed normally.  Harness/connector trouble between the LD PWB and the LSU mother PWB.  LD PWB trouble.
	LSU mother PWB trouble.
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check connection of the harness/connector between the LD PWB and the LSU mother PWB.

# E7-25 LSU LD driver error (C)

Trouble content	
Detail	PCU
Cause	When lighting the LSU LD, initialization of the LD driver is not performed normally.  Harness/connector trouble between the LD PWB and the LSU mother PWB.  LD PWB trouble.  LSU mother PWB trouble.
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check connection of the harness/connector between the LD PWB and the LSU mother PWB.

# E7-26 LSU LD driver error (M)

Trouble content	
Detail	PCU
Cause	When lighting the LSU LD, initialization of the LD driver is not performed normally.  Harness/connector trouble between the LD PWB and the LSU mother PWB.  LD PWB trouble.  LSU mother PWB trouble.
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check connection of the harness/connector between the LD PWB and the LSU mother PWB.

# E7-27 LSU LD driver error (Y)

Trouble content	
Trouble content	
Detail	PCU
Cause	When lighting the LSU LD, initialization of the LD driver is not performed normally.  Harness/connector trouble between the LD PWB and the LSU mother PWB.  LD PWB trouble.  LSU mother PWB trouble.
Check & Remedy	Use SIM61-1 to check the operation of the LSU. Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check connection of the harness/connector between the LD PWB and the LSU mother PWB.

## E7-28 LSU - PCU connection error

Trouble content	
Detail	PCU
Cause	Communication error between the CPU in the PCU PWB and the LSU control ASIC. Improper connection of the communication connector between the PCU PWB and the LSU control PWB (interface PWB). Harness trouble between the PCU PWB and the LSU control PWB (interface PWB) PCU PWB trouble. LSU control PWB trouble. LSU trouble. LSU mother PWB trouble.
Check & Remedy	Check connection of the connector and the harness between the PCU PWB and the LSU control PWB (interface PWB).  Replace the LSU mother PWB.  Replace the PCU PWB.  Replace the LSU.  Replace the LSU control PWB.

# E7-29 LSU ASIC frequency error

Trouble content	
Detail	PCU
Cause	Oscillation abnormality of the external oscillator and the internal oscillating circuit used in the LSU ASIC. LSU ASIC abnormality on the LSU ASIC PWB.
Check & Remedy	Replace the LSU control PWB.

# E7-42 Image data trouble (Scanner expansion PWB (ACRE) ASIC)

Trouble content	
Detail	MFP
Cause	An image data error occurs. An image data send error occurs. Scanner expansion PWB (ACRE) connection trouble. Scanner expansion PWB (ACRE) trouble. MFPC PWB trouble.
Check & Remedy	Check connection of the scanner expansion PWB (ACRE). Check the scanner expansion PWB (ACRE), and replace if necessary. Check the MFPC PWB, and replace if necessary.

# E7-46 Image data decode error (Scanner expansion PWB (ACRE) ASIC)

Trouble content	
Detail	MFP
Cause	A decode error occurs while high compression PDF images are made. (garbled data) Scanner expansion PWB (ACRE) connection trouble. Scanner expansion PWB (ACRE) trouble. MFPC PWB trouble.
Check & Remedy	Check connection of the scanner expansion PWB (ACRE). Check the scanner expansion PWB (ACRE), and replace if necessary. Check the MFPC PWB, and replace if necessary.

# E7-48 Scanner expansion PWB (ACRE) ASIC memory error

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Trouble content	DDR calibration error
	DIMM insertion trouble, etc.
Detail	MFP
Cause	Scanner expansion PWB (ACRE) DIMM trouble, memory slot trouble.
	Scanner expansion PWB (ACRE) DIMM insertion trouble.
	Scanner expansion PWB (ACRE) connection trouble. Scanner expansion PWB (ACRE) trouble. MFPC PWB trouble.
Check & Remedy	Check insertion of the scanner expansion PWB (ACRE) DIMM memory. Check the scanner expansion PWB (ACRE) DIMM memory, and replace if necessary. Check connection of the scanner expansion PWB (ACRE). Check the scanner expansion PWB (ACRE), and replace if necessary.
I	Check the MFPC PWB, and replace if necessary.

## E7-49 Water Mark data error

Trouble content	
Detail	MFP
Cause	Watermark data trouble. HDD trouble.
Check & Remedy	Use SIM49-5 to upload the watermark data. Replace the HDD.

# E7-50 Combination error between PWB and firmware (PCU PWB detection)

Trouble content	
Detail	PCU
Cause	A PWB/firmware/LSU which is not compatible with the machine specifications is detected. PCU PWB trouble LSU trouble
Check & Remedy	Check the kind and the version of the firmware. Check or replace the LSU. Check or replace the PCU PWB.

## E7-55 PCU PWB information sum error

Trouble content	PCU EEPROM PWB information sum error
Detail	PCU
Cause	PCU EEPROM sum check error.
	PCU EEPROM trouble.
	PCU EEPROM contact trouble.
Check & Remedy	Replace the PCU PWB.
	Replace the PCU EEPROM.

# E7-60 Combination error between PWB and firmware (MFPC PWB detection)

Trouble content	
Detail	MFP
Cause	A PWB/firmware which is not compatible with the machine specifications is detected in the MFPC PWB.  MFPC PWB trouble.
Check & Remedy	Check the kind and the version of the firmware. Check or replace the MFPC PWB.

# E7-61 Combination error between the MFPC PWB and the PCU PWB (MFPC PWB detection)

Trouble content	
Detail	MFP
Cause	Combination error between the MFPC PWB and the PCU PWB. MFPC PWB trouble. PCU PWB trouble.
Check & Remedy	Check the combination between the MFPC PWB and the PCU PWB. Replace the MFPC PWB. Replace the PCU PWB.

## E7-65 MFP EEPROM sum check error

Trouble content	
Detail	MFP
Cause	MFPC PWB EEPROM trouble.
	MFPC PWB EEPROM contact trouble.
Check & Remedy	Replace the MFPC PWB.
	Replace the MFPC PWB EEPROM.

## E7-80 MFP - SCU PWB communication error

Trouble content	
Detail	MFP
Cause	SCU PWB - MFPC PWB connection trouble. SCU PWB trouble. MFPC PWB trouble.
Check & Remedy	Check connection of the SCU PWB and the MFPC PWB. Check the ground. Replace the SCU PWB. Replace the MFPC PWB.

# E7-89 Communication error between MFPC PWB CPU and energy-saving NIC controller

Trouble content	No response can be obtained from the energy-saving NIC controller.
Detail	MFP
Cause	MFPC PWB trouble.
Check & Remedy	Replace the MFPC PWB.

# E7-90 MFP - PCU PWB communication error

Trouble content	
Detail	MFP
Cause	PCU PWB - MFPC PWB connection trouble. PCU PWB trouble. MFPC PWB trouble.
Check & Remedy	Check connection of the PCU PWB and the MFPC PWB. Check the ground. Replace the PCU PWB. Replace the MFPC PWB.

# E7-91 FAX reception image data error

Trouble content	An error of FAX reception image data process occurs.
Detail	MFP
Cause	Image data process abnormality
	HDD trouble
	SD card trouble or contact error
	Image compression data corruption
	MFPC PWB trouble
	DIMM memory trouble or contact error
	FAX control PWB trouble
Check & Remedy	Use SIM60-01 to check the read/write operations of
	the memory.
	Replace the HDD.
	Replace or check installation of the SD card.
	Replace the MFPC PWB.
	Replace or check installation of the DIMM memory.
	Replace the FAX control PWB.

# E7-92 Copy image data error

Trouble content	An error of copy image data process occurs. (In Non ERDH)
Detail	MFP
Cause	Image data process abnormality HDD trouble Image compression data corruption MFPC PWB trouble DIMM memory trouble or contact error
Check & Remedy	Use SIM60-01 to check the read/write operations of the memory. Replace the HDD. Replace the MFPC PWB. Replace or check installation of the DIMM memory.

# E7-93 Copy, image send, FAX, filing, print image data process error

Trouble content	An image data process error occurs in the following operation mode:  Copy (in ERDH)  Copy composing system function (Water mark)  When in image send  When filing documents  When displaying the preview  When printing with the GDI/PCL printer  Copy composing system function (Water mark)
Detail	MFP
Cause	Image data process abnormality HDD trouble Image compression data corruption MFPC PWB trouble DIMM memory trouble or contact error
Check & Remedy	Use SIM60-01 to check the read/write operations of the memory. Replace the HDD. Replace the MFPC PWB. Replace or check installation of the DIMM memory.

# E7-94 Image file data process error (when importing file data)

Trouble content	File image process error (backup restore error) when
	importing filing data
Detail	MFP
Cause	Image data process abnormality
	HDD trouble
	Image compression data corruption
	MFPC PWB trouble
	DIMM memory trouble or contact error
Check & Remedy	Use SIM60-01 to check the read/write operations of
	the memory.
	Replace the HDD.
	Replace the MFPC PWB.
	Replace or check installation of the DIMM memory.

# E7-95 Printer PWB DIMM memory check error

Trouble content	Printer PWB DIMM memory access trouble
Detail	MFP
Cause	Memory data corruption occurs
	Printer PWB trouble
	DIMM memory trouble or contact error
Check & Remedy	Use SIM60-01 to check the read/write operations of
	the memory.
	Replace the printer PWB.
	DIMM memory socket check
	Replace the DIMM memory.

## E7-96 MFPC PWB DIMM memory check error

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Trouble content	MFPC PWB DIMM memory access trouble
Detail	MFP
Cause	Memory data corruption occurs
	MFPC PWB trouble
	DIMM memory trouble or contact error
Check & Remedy	Use SIM60-01 to check the read/write operations of
	the memory.
	Replace the MFPC PWB.
	DIMM memory socket check
	Replace the DIMM memory.

# E7-A0 LSU LD PWB EEPROM read/write error (K)

Trouble content	Write error in the EEPROM write sequence
Detail	PCU
Cause	LD PWB EEPROM trouble. LSU mother PWB trouble.
	Connector/harness trouble between the LD PWB and the LSU mother PWB.
	Connector/harness trouble between the PCU PWB and the LSU mother PWB.
Check & Remedy	Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check the connector/harness between the LD PWB and the LSU mother PWB, and replace if necessary. Check the connector/harness between the PCU PWB and the LSU mother PWB, and replace if necessary.
	Replace the LSU.

# E7-A1 LSU LD PWB EEPROM read/write error (C)

Trouble content	Write error in the EEPROM write sequence
Detail	PCU
Cause	LD PWB EEPROM trouble. LSU mother PWB trouble. Connector/harness trouble between the LD PWB and the LSU mother PWB. Connector/harness trouble between the PCU PWB and the LSU mother PWB.
Check & Remedy	Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check the connector/harness between the LD PWB and the LSU mother PWB, and replace if necessary. Check the connector/harness between the PCU PWB and the LSU mother PWB, and replace if necessary. Replace the LSU.

# E7-A2 LSU LD PWB EEPROM read/write error (M)

Trouble content	Write error in the EEPROM write sequence
Detail	PCU
Cause	LD PWB EEPROM trouble. LSU mother PWB trouble. Connector/harness trouble between the LD PWB and the LSU mother PWB. Connector/harness trouble between the PCU PWB
	and the LSU mother PWB.
Check & Remedy	Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check the connector/harness between the LD PWB and the LSU mother PWB, and replace if necessary. Check the connector/harness between the PCU PWB
	and the LSU mother PWB, and replace if necessary. Replace the LSU.

# E7-A3 LSU LD PWB EEPROM read/write error (Y)

Trouble content	Write error in the EEPROM write sequence
Detail	PCU
Cause	LD PWB EEPROM trouble. LSU mother PWB trouble. Connector/harness trouble between the LD PWB and the LSU mother PWB. Connector/harness trouble between the PCU PWB and the LSU mother PWB.
Check & Remedy	Check the LSU, and replace if necessary. Check the LSU mother PWB, and replace if necessary. Check the connector/harness between the LD PWB and the LSU mother PWB, and replace if necessary. Check the connector/harness between the PCU PWB and the LSU mother PWB, and replace if necessary. Replace the LSU.

# **EE-EC** Automatic toner density adjustment error

Trouble content	The sampling level in the automatic toner density adjustment is outside of 128 ±10.
Detail	PCU
Cause	Toner density sensor trouble. Developing unit trouble. PCU PWB trouble.
Check & Remedy	Replace the toner density sensor. Replace the developing unit. Replace the PCU PWB.

# **EE-EL** Automatic toner density adjustment error (Over toner)

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Trouble content	The sampling level in the automatic toner density adjustment is 76 or less or the control voltage is 208 or above.
Detail	PCU
Cause	Toner density sensor trouble.
	Developing unit trouble.
	PCU PWB trouble.
Check & Remedy	Replace the toner density sensor.
	Replace the developing unit.
	Replace the PCU PWB.

# **EE-EU** Automatic toner density adjustment error (Under toner)

Trouble content	The sampling level in the automatic toner density adjustment is 178 or above or the control voltage is 51 or less.
Detail	PCU
Cause	Toner density sensor trouble.
	Developing unit trouble.
	PCU PWB trouble.
Check & Remedy	Replace the toner density sensor.
	Replace the developing unit.
	Replace the PCU PWB.

# F1-00 Finisher - PCU PWB communication error

Trouble content	
Detail	PCU
Cause	Connection trouble of the connector and the harness between the finisher and the PCU PWB. Finisher control PWB trouble. PCU PWB trouble.
Check & Remedy	Check the connector and the harness between the finisher and the PCU PWB. Replace the finisher control PWB. Replace the PCU PWB.

# F1-03 Finisher paper exit roller lifting operation trouble

Trouble content	
Detail	PCU
Cause	Finisher paper exit roller lift motor trouble
	Harness and connector connection trouble
	Home position sensor trouble
	Finisher control PWB trouble
Check & Remedy	Use SIM3-3 to check the operation of the paper exit
	roller lift motor.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the paper exit roller lift motor.
	Check connection of the connector and the harness.
	Replace the home position sensor.
	Replace the finisher control PWB.

### F1-08 Stapler shift trouble

Trouble content	
Detail	PCU
Cause	Stapler shift motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
Check & Remedy	Use SIM3-3 to check the operation of the stapler shift
	motor.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the stapler shift motor.
	Check connection of the connector and the harness.
	Replace the home position sensor.
	Replace the finisher control PWB.

### F1-10 Staple operation trouble

Trouble content	
Detail	PCU
Cause	Staple motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
Check & Remedy	Use SIM3-3 to check the operation of the staple
	motor.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the staple motor.
	Check connection of the connector and the harness.
	Replace the home position sensor.
	Replace the finisher control PWB.

### F1-11 Finisher grip motor trouble

Trouble content	
Detail	PCU
Cause	Paper exit operation trouble caused by the gripper. Gripper motor lock or trouble. Gripper home position sensor trouble. Finisher control PWB trouble. Connection trouble of the harness and the connector of the finisher control PWB and the gripper motor.
Check & Remedy	Use SIM3-3 to check the operation of the gripper motor. Check the connection of the harness and the connector of the finisher control PWB and the gripper motor, and replace if necessary. Check the gripper motor, and replace if necessary. Check the gripper home position sensor, and replace if necessary. Check the finisher control PWB, and replace if necessary.

# F1-15 Finisher paper exit tray lift operation trouble

Trouble content	Lift motor trouble.
Detail	PCU
Cause	Paper exit tray lift motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
Check & Remedy	Use SIM3-3 to check the operation of the paper exit
	tray lift motor.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the finisher control PWB.
	Replace the paper exit tray lift motor.
	Replace the home position sensor.

# F1-19 Finisher alignment operation trouble F

Trouble content	
Detail	PCU
Cause	Finisher paper alignment motor lock.
	Motor speed abnormality.
	Over-current to the motor.
	Finisher control PWB trouble.
	Home position sensor trouble.
Check & Remedy	Use SIM3-3 to check the operation of the paper
	alignment motor F.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the finisher control PWB.
	Replace the paper alignment motor F.
	Replace the home position sensor.

# F1-20 Finisher alignment operation trouble R

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Trouble content	
Detail	PCU
Cause	Finisher paper alignment motor lock.
	Motor speed abnormality.
	Over-current to the motor.
	Finisher control PWB trouble.
	Home position sensor trouble.
Check & Remedy	Use SIM3-3 to check the operation of the paper
	alignment motor R.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the finisher control PWB.
	Replace the paper alignment motor R.
	Replace the home position sensor.

#### F1-21 Finisher fan trouble

Trouble content	
Detail	PCU
Cause	Motor lock, motor harness short-circuit/open, finisher control PWB trouble, connection harness/connector trouble.  Fan motor lock, short-circuit, open circuit. Finisher fan trouble. Finisher control PWB trouble. Connector/harness trouble
Check & Remedy	Use SIM3-3 to check the operation of the fan. Check the finisher fan, and replace if necessary. Check the finisher control PWB, and replace if necessary. Check the connector/harness, and replace if necessary.

# F1-31 Finisher saddle motor trouble (Saddle stitch finisher)

Trouble content	
Detail	PCU
Cause	Saddle paper folding motor trouble. Saddle paper folding mechanism trouble. Finisher control PWB trouble. Folding plate home position sensor trouble. Saddle paper folding motor rotation sensor trouble. Harness/connector connection trouble. PCU PWB trouble.
Check & Remedy	Use SIM3-3 to check the operation of the saddle motor. Check the saddle paper folding mechanism. Check the finisher control PWB, and replace if necessary. Check the folding plate home position sensor, and replace if necessary. Check the saddle paper folding motor rotation sensor, and replace if necessary. Check connection of the harness/connector, and replace if necessary. Check the PCU PWB, and replace if necessary.

# F1-32 Communication error between the finisher and the punch unit (Saddle stitch finisher)

Trouble content	
Detail	PCU
Cause	Connector/harness trouble between the finisher and the punch unit. Finisher control PWB trouble. PCU PWB trouble. Malfunction due to noises.
Check & Remedy	Check the connector/harness between the finisher and the punch unit, and replace if necessary.  Check the finisher control PWB, and replace if necessary.  Check the PCU PWB, and replace if necessary.

### F1-33 Punch unit shift operation trouble

Trouble content	
Detail	PCU
Cause	Punch shift motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
	Harness and connector connection trouble.
Check & Remedy	Use SIM3-3 to check the operation of the punch
	shifting.
	Use SIM3-2 to check the operation of the home
	position sensor.
	Replace the punch shift motor.
	Replace the finisher control PWB.
	Replace the home position sensor.
	Check connection of the connectors and the harness.

#### F1-34 Punch operation trouble

Trouble content	
Detail	PCU
Cause	Punch motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
	Harness and connector connection trouble.
Check & Remedy	Use SIM3-2 to check the operation of the home
	position sensor.
	Use SIM3-3 to check the operation of the punch.
	Replace the punch motor.
	Replace the finisher control PWB.
	Replace the home position sensor.
	Check connection of the connectors and the harness.

# F1-36 Punch paper edge detection error

Trouble content	
Detail	PCU
Cause	Punch paper edge sensor trouble.
	Harness disconnection.
	Finisher control PWB trouble.
	Punch control PWB trouble.
Check & Remedy	Use SIM3-2 to check the operation of the sensor.
	Replace the punch paper edge sensor.
	Replace the finisher control PWB.
	Replace the punch control PWB.

#### F1-37 Finisher data backup RAM error

Trouble content	
Detail	PCU
Cause	Finisher control PWB trouble.
	Malfunction due to noises
Check & Remedy	Replace the finisher control PWB.
	Readjust the finisher. (Use SIM3-10, Finisher control
	PWB DIP SW adjustment.)

### F1-38 Punch data backup RAM error

Trouble content	
Detail	PCU
Cause	Punch control PWB trouble.
	Malfunction due to noises
Check & Remedy	Replace the punch control PWB.
	Set the punch unit specifications, and adjust the
	sensor. (Punch unit control PWB DIP SW
	adjustment.)

### F1-39 Punch paper dust sensor error

Trouble content	
Detail	PCU
Cause	Punch dust sensor trouble.
	Harness and connector connection trouble.
	Finisher control PWB trouble.
	Punch unit control PWB trouble.
Check & Remedy	Use SIM3-2 to check the operation of the sensor.
	Check connection of the connectors and the harness.
	Replace the punch dust sensor.
	Replace the finisher control PWB.
	Replace the punch unit control PWB.

# F1-41 Saddle paper positioning operation trouble

Trouble content	Abnormality in the folding positioning guide motor in
	the saddle section.
Detail	PCU
Cause	Saddle paper positioning guide drive motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
	Harness and connector connection trouble.
Check & Remedy	Use SIM3-3 to check the operation of the saddle
	paper positioning motor.
	Check connection from the control PWB to the motor.
	Turn OFF/ON the power.
	Replace the control PWB.
	Replace the sensor.

# F1-43 Saddle alignment operation trouble

Trouble content	
Detail	PCU
Cause	Saddle alignment motor trouble. Finisher control PWB trouble. Home position sensor trouble. Harness and connector connection trouble.
Check & Remedy	Use SIM3-3 to check the operation of the Saddle alignment motor (FSPAM). Check connection from the control PWB to the motor. Turn OFF/ON the power. Replace the control PWB. Replace the sensor.

#### F1-45 Saddle staple trouble

Trouble content	Abnormality of the staple unit drive motor in the saddle section.
Detail	PCU
Cause	Saddle staple motor trouble.
	Finisher control PWB trouble.
	Home position sensor trouble.
	Harness and connector connection trouble.
Check & Remedy	Use SIM3-3 to check the operation of the saddle
	staple motor.
	Check connection from the control PWB to the motor.
	Turn OFF/ON the power.
	Replace the control PWB.
	Replace the sensor.

### F1-47 Saddle paper transport motor trouble

Trouble content	Abnormality in the drive roller oscillation motor in the finisher saddle transport section.
Detail	PCU
Cause	Saddle paper transport motor trouble. Finisher control PWB trouble. Harness and connector connection trouble. Fuse blown (24V line).
Check & Remedy	Use SIM3-3 to check the operation of the saddle paper transport motor. Check connection from the control PWB to the motor. Replace the control PWB. Replace the sensor.

#### F1-50 Main unit - Finisher combination error

Trouble content	
Detail	PCU
Cause	The finisher which is not supported by the main unit model is installed. Finisher control PWB trouble.
Check & Remedy	Install a proper finisher. Replace the finisher control PWB.

# F2-22 Discharge lamp trouble (K)

Trouble content	The lamp is kept open for 1 sec from turning on the discharge lamp.
Detail	PCU
Cause	Contact trouble between the discharge lamp PWB (K) and the PCU PWB. Discharge lamp PWB (K) trouble. PCU PWB trouble.
Check & Remedy	Replace the discharge lamp PWB (K). Check the harness and the connector. Replace the PCU PWB.

# F2-23 Discharge lamp trouble (C)

Trouble content	The lamp is kept open for 1 sec from turning on the discharge lamp.
Detail	PCU
Cause	Contact trouble between the discharge lamp PWB (C) and the PCU PWB. Discharge lamp PWB (C) trouble. PCU PWB trouble.
Check & Remedy	Replace the discharge lamp PWB (C). Check the harness and the connector. Replace the PCU PWB.

#### F2-24 Discharge lamp trouble (M)

Trouble content	The lamp is kept open for 1 sec from turning on the discharge lamp.
Detail	PCU
Cause	Contact trouble between the discharge lamp PWB (M) and the PCU PWB. Discharge lamp PWB (M) trouble. PCU PWB trouble.
Check & Remedy	Replace the discharge lamp PWB (M). Check the harness and the connector. Replace the PCU PWB.

### F2-25 Discharge lamp trouble (Y)

Trouble content	The lamp is kept open for 1 sec from turning on the discharge lamp.
Detail	PCU
Cause	Contact trouble between the discharge lamp PWB (Y) and the PCU PWB. Discharge lamp PWB (Y) trouble. PCU PWB trouble.
Check & Remedy	Replace the discharge lamp PWB (Y). Check the harness and the connector. Replace the PCU PWB.

#### F2-39 Process thermistor trouble

Trouble content	
Detail	PCU
Cause	Process thermistor trouble. Process thermistor harness connection trouble. PCU PWB trouble.
Check & Remedy	Replace the process thermistor. Check connection of the process thermistor harness and the connector. Replace the PCU PWB.

# F2-40 Toner density sensor trouble (K)

Trouble content	
Detail	PCU
Cause	Toner density sensor output abnormality. Sensor connector and harness connection trouble. Developing unit trouble. PCU PWB trouble.
Check & Remedy	Replace the toner density sensor. Check connection of the sensor connector and the harness. Replace the developing unit. Replace the PCU PWB.

# F2-41 Toner density sensor trouble (C)

Trouble content	
Detail	PCU
Cause	Toner density sensor output abnormality. Sensor connector and harness connection trouble. Developing unit trouble. PCU PWB trouble.
Check & Remedy	Replace the toner density sensor. Check connection of the sensor connector and the harness. Replace the developing unit. Replace the PCU PWB.

#### F2-42 Toner density sensor trouble (M)

Trouble content	
Detail	PCU
Cause	Toner density sensor output abnormality.
	Sensor connector and harness connection trouble.
	Developing unit trouble.
	PCU PWB trouble.
Check & Remedy	Replace the toner density sensor.
	Check connection of the sensor connector and the
	harness.
	Replace the developing unit.
	Replace the PCU PWB.

### F2-43 Toner density sensor trouble (Y)

Trouble content	
Detail	PCU
Cause	Toner density sensor output abnormality. Sensor connector and harness connection trouble. Developing unit trouble. PCU PWB trouble.
Check & Remedy	Replace the toner density sensor. Check connection of the sensor connector and the harness. Replace the developing unit. Replace the PCU PWB.

### F2-45 Color image density sensor trouble

Trouble content	
Detail	PCU
Cause	Color image density sensor sensitivity adjustment trouble. Color image density sensor trouble. Sensor harness and connector connection trouble.
	Image density sensor dirt.
	Calibration plate dirt.
	Transfer unit lift operation trouble
	PCU PWB trouble.
Check & Remedy	Replace the color image density sensor.
	Check connection of the sensor harness and the connector.
	Clean the image density sensor.
	Replace the calibration plate.
	Repair the transfer unit lift mechanism.
	Replace the PCU PWB.
	Use SIM44-13 to perform the sensitivity adjustment of
	the process control sensor.

#### F2-49 LSU thermistor trouble

Trouble content	
Detail	PCU
Cause	The LSU temperature is outside of -28°C - 78°C. LSU thermistor trouble.
	LSU thermistor harness and connector connection trouble
	PCU PWB trouble.
	LSU control PWB trouble.
Check & Remedy	Replace the PCU PWB.
	Replace the LSU control PWB.
	Replace the LSU.

#### F2-50 K drum phase sensor trouble

Trouble content	
Detail	PCU
Cause	Drum phase sensor trouble. Drum phase sensor harness and connector connection trouble Drum drive section trouble. PCU PWB trouble.
Check & Remedy	Use SIM30-1 to check the operation of "DHPD_K". Replace the drum phase sensor. Check connection of the drum phase sensor harness and the connector. Repair the drum drive section. Replace the PCU PWB.

### F2-51 CL drum phase sensor trouble

Trouble content	
Detail	PCU
Cause	Drum phase sensor trouble.  Drum phase sensor harness and connector connection trouble  Drum drive section trouble.  PCU PWB trouble.
Check & Remedy	Use SIM30-1 to check the operation of "DHPD_CL". Replace the drum phase sensor. Check connection of the drum phase sensor harness and the connector. Repair the drum drive section. Replace the PCU PWB.

# F2-58 Temperature/humidity sensor trouble (HUD\_M/TH\_M)

Trouble content	
Detail	PCU
Cause	Temperature/humidity sensor trouble.
	Process humidity sensor harness and connector
	connection trouble
	PCU PWB trouble.
Check & Remedy	Replace the temperature/humidity sensor.
	Check connection of the temperature/humidity sensor
	harness and the connector.
	Replace the PCU PWB.

# F2-64 Toner supply operation trouble (K)

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Trouble content	
Detail	PCU
Cause	Toner motor trouble.
	Toner density sensor trouble.
	Connector/harness trouble.
	PCU PWB trouble.
	Toner cartridge trouble.
	Developing unit trouble.
	Toner transport pipe section trouble
Check & Remedy	Replace the toner motor.
	Replace the toner density sensor.
	Connector and harness check.
	Replace the PCU PWB.
	Replace the toner cartridge.
	Replace the developing unit.
	Check the toner transport pipe section.

### F2-65 Toner supply operation trouble (C)

Trouble content	
Detail	PCU
Cause	Toner motor trouble.
	Toner density sensor trouble.
	Connector/harness trouble.
	PCU PWB trouble.
	Toner cartridge trouble.
	Developing unit trouble.
	Toner transport pipe section trouble
Check & Remedy	Replace the toner motor.
	Replace the toner density sensor.
	Connector and harness check.
	Replace the PCU PWB.
	Replace the toner cartridge.
	Replace the developing unit.
	Check the toner transport pipe section.

# F2-66 Toner supply operation trouble (M)

Trouble content	
Detail	PCU
Cause	Toner motor trouble.
	Toner density sensor trouble.
	Connector/harness trouble.
	PCU PWB trouble.
	Toner cartridge trouble.
	Developing unit trouble.
	Toner transport pipe section trouble
Check & Remedy	Replace the toner motor.
	Replace the toner density sensor.
	Connector and harness check.
	Replace the PCU PWB.
	Replace the toner cartridge.
	Replace the developing unit.
	Check the toner transport pipe section.

# F2-67 Toner supply operation trouble (Y)

Trouble content	
Detail	PCU
Cause	Toner motor trouble.
	Toner density sensor trouble.
	Connector/harness trouble.
	PCU PWB trouble.
	Toner cartridge trouble.
	Developing unit trouble.
	Toner transport pipe section trouble
Check & Remedy	Replace the toner motor.
	Replace the toner density sensor.
	Connector and harness check.
	Replace the PCU PWB.
	Replace the toner cartridge.
	Replace the developing unit.
	Check the toner transport pipe section.

# F2-70 Improper toner cartridge detection (K)

PCU
An improper toner cartridge is inserted. (The main unit detects a toner cartridge of a different specification.)  Toner cartridge trouble. PCU PWB trouble.
Replace the toner cartridge. Replace the PCU PWB.

#### F2-71 Improper toner cartridge detection (C)

Trouble content	
Detail	PCU
Cause	An improper toner cartridge is inserted. (The main unit detects a toner cartridge of a different specification.)  Toner cartridge trouble.  PCU PWB trouble.
Check & Remedy	Replace the toner cartridge. Replace the PCU PWB.

### F2-72 Improper toner cartridge detection (M)

Trouble content	
Detail	PCU
Cause	An improper toner cartridge is inserted. (The main unit detects a toner cartridge of a different specification.)  Toner cartridge trouble.  PCU PWB trouble.
Check & Remedy	Replace the toner cartridge. Replace the PCU PWB.

### F2-73 Improper toner cartridge detection (Y)

Trouble content	
Detail	PCU
Cause	An improper toner cartridge is inserted. (The main unit detects a toner cartridge of a different specification.)  Toner cartridge trouble.  PCU PWB trouble.
Check & Remedy	Replace the toner cartridge. Replace the PCU PWB.

# F2-74 Toner cartridge CRUM error (K)

Trouble content	
Detail	PCU
Cause	Toner cartridge (CRUM) trouble.
	PCU PWB trouble.
	Connector and harness trouble between PCU PWB
	and toner cartridge
Check & Remedy	Replace the toner cartridge.
	Replace the PCU PWB.
	Check the connector and the harness between the
	PCU PWB and the toner cartridge.

# F2-75 Toner cartridge CRUM error (C)

Trouble content	
Detail	PCU
Cause	Toner cartridge (CRUM) trouble. PCU PWB trouble. Connector and harness trouble between PCU PWB and toner cartridge
Check & Remedy	Replace the toner cartridge. Replace the PCU PWB. Check the connector and the harness between the PCU PWB and the toner cartridge.

#### F2-76 Toner cartridge CRUM error (M)

Trouble content	
Detail	PCU
Cause	Toner cartridge (CRUM) trouble. PCU PWB trouble. Connector and harness trouble between PCU PWB and toner cartridge
Check & Remedy	Replace the toner cartridge. Replace the PCU PWB. Check the connector and the harness between the PCU PWB and the toner cartridge.

### F2-77 Toner cartridge CRUM error (Y)

Trouble content	
Detail	PCU
Cause	Toner cartridge (CRUM) trouble. PCU PWB trouble. Connector and harness trouble between PCU PWB and toner cartridge
Check & Remedy	Replace the toner cartridge. Replace the PCU PWB. Check the connector and the harness between the PCU PWB and the toner cartridge.

# F2-78 Registration/BK image density sensor trouble (Transfer belt substrate reflection rate abnormality)

Trouble content	
Detail	PCU
Cause	Image density (registration) sensor trouble (Sensor sensitivity adjustment trouble). PCU PWB trouble. Image density (resist) sensor connector and harness connection trouble Image density (registration) sensor dirt. Transfer belt dirt, scratch.
Check & Remedy	Replace the image density (registration) sensor. Replace the PCU PWB. Check connection of the connector and the harness of the image density (resist) sensor. Clean the image density (registration) sensor. Clean or replace the transfer belt.

# F2-91 High density process control high voltage error (K)

Trouble content	For the production process (Not occur in the market.)
Detail	PCU
Cause	
Check & Remedy	_

# F2-92 High density process control high voltage error (C)

Trouble content	For the production process (Not occur in the market.)
Detail	PCU
Cause	_
Check & Remedy	_

# F2-93 High density process control high voltage error (M)

Trouble content	For the production process (Not occur in the market.)
Detail	PCU
Cause	_
Check & Remedy	_

# F2-94 High density process control high voltage error (Y)

Trouble content	For the production process (Not occur in the market.)
Detail	PCU
Cause	_
Check & Remedy	_

#### F3-12 Paper feed tray 1 lift operation trouble

Trouble content	
Detail	PCU
Cause	LUD1 is not turned ON within the specified time. CLUD1 sensor trouble. Paper feed tray 1 lift unit trouble. PCU PWB trouble. Sensor harness and connector connection trouble
Check & Remedy	Check connection of the harness and the connector of LUD1. Replace the lift-up unit. Replace the PCU PWB.

### F3-22 Paper feed tray 2 lift operation trouble

Trouble content	LUD2 does not turn ON within the specified time.
Detail	PCU
Cause	LUD2 does not turn ON within the specified time.
	CLUD2 sensor trouble.
	Paper feed tray 2 lift unit trouble.
	PCU PWB trouble.
	Sensor harness and connector connection trouble
Check & Remedy	Check the harness and the connector of LUD2.
	Replace the lift-up unit.
	Replace the PCU PWB.

# F6-00 MFPC PWB - FAX communication trouble

Trouble	content	MFP - FAX communication establishment error /
		Framing / Parity / Protocol error
Section		MFP
Case 1	Cause	FAX control PWB trouble.
	Check and Remedy	Replace the FAX control PWB.
Case 2	Cause	FAX control PWB - MFPC PWB connector and harness trouble
	Check and Remedy	Check the connector and the harness between the FAX control PWB and the MFPC PWB.
Case 3	Cause	FAX control PWB - Mother board connector and harness trouble
	Check and Remedy	Check the connector and the harness between the FAX control PWB and the mother board.
Case 4	Cause	FAX control PWB ROM trouble / ROM pin breakage
	Check and Remedy	Check the ROM of the FAX control PWB.

# F6-01 FAX control PWB EEPROM read/write error

Trouble	content	FAX control PWB EEPROM access error (Read and write)
Section		FAX
Case 1	Cause	FAX control PWB EEPROM trouble
	Check and Remedy	Check that no trouble occurs after replacement of EEPROM. Execute the memory check of SIM66-3 to insure that EEPROM can be accessed.
Case 2	Cause	FAX control PWB EEPROM access circuit trouble
	Check and Remedy	Replace the FAX control PWB.

#### **F6-04 FAX MODEM operation trouble**

Trouble content		FAX control PWB MODEM chip operation trouble
Section		FAX
Case 1	Cause	FAX MODEM chip operation trouble.
	Check	Replace the FAX control PWB.
	and	
	remedy	
Case 2	Cause	The FAX MODEM chip cannot be accessed.
	Check	Replace the FAX control PWB.
	and	
	Remedy	

# F6-21 Improper combination of TEL/LIU PWB and FAX soft switch

Trouble content		Incompatibility between the TEL/LIU PWB and the FAX control PWB information (soft switch)
Section		MFP
Case 1	Cause	The destination of the TEL/LIU PWB installed is improper.
	Check and Remedy	Check the destination of the TEL/LIU PWB.
Case 2	Cause	TEL/LIU PWB trouble.
	Check and Remedy	Replace the TEL/LIU PWB.

# FAX 1-chip microprocessor access error (FAX detection)

Trouble	content	FAX 1-chip microprocessor access error (Read and
		write)
Section		MFP
Case 1	Cause	Program writing trouble to the 1-chip microprocessor,
		or no program data written.
	Check	Use SIM66-42 to rewrite the 1-chip microprocessor
	and	program.
	Remedy	
Case 2	Cause	FAX 1-chip microprocessor circuit trouble.
	Check	Replace the FAX control PWB.
	and	·
	Remedy	

# F6-97 Incompatibility between FAX control PWB and the main machine

Trouble content		Incompatibility between FAX control PWB and the main machine
Section		MFP
Case 1	Cause	The FAX control PWB installed is improper. FAX control PWB trouble.
	Check and Remedy	Install a proper FAX control PWB. Replace the FAX control PWB.

# F6-98 Incompatibility between the FAX control PWB destination and the main machine destination

Trouble content		Incompatibility between the FAX control PWB
		destination and the main machine destination
Section		MFP
Case 1	Cause	Incompatibility between the destination information written into the FAX control PWB EEPROM and that in the main machine (set with SIM26-6)
	Check and Remedy	Check the destination of the FAX control PWB.     Check the destination of the machine. (SIM26-6)

# F9-91 Communication error between MFP and the printer section when booting

Trouble content	Booting of the printer section cannot be recognized when booting.
Detail	MFP
Cause	MFPC (section) PWB trouble. Printer (section) PWB trouble. Printer flash ROM trouble. MFPC (section) PWB - printer (section) PWB connection trouble.
Check & Remedy	Replace the MFPC (section) PWB. Replace the printer (section) PWB. Replace the printer flash ROM. Check connection between the MFPC (section) PWB and the printer (section) PWB.

# F9-92 Printer (section) PWB hardware error

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Trouble content	
Detail	Printer (section) PWB
Cause	Printer PWB trouble
	Font ROM contact trouble or error
	DIMM memory contact trouble or error
Check & Remedy	Replace the printer PWB.
	Check the font ROM socket.
	Check the DIMM memory socket.
	Check the font ROM.
	Replace the DIMM memory.

# H2-00 Thermistor open trouble (TH\_UM\_AD2)

Trouble content	
Detail	PCU
Cause	Thermistor trouble PCU PWB trouble Thermistor connector and harness connection trouble Fusing section connector connection trouble Fusing unit not installed
Check & Remedy	Use SIM44-14 to check the state of the thermistor. Replace the thermistor. Replace the PCU PWB. Check connection of the thermistor connector and the harness. Check the connector in the fusing section.

### **H2-01** Thermistor open trouble (TH\_LM)

Trouble content	
Detail	PCU
Cause	Thermistor trouble PCU PWB trouble Thermistor connector and harness connection trouble Fusing section connector connection trouble Fusing unit not installed
Check & Remedy	Use SIM44-14 to check the state of the thermistor. Replace the thermistor. Replace the PCU PWB. Check connection of the thermistor connector and the harness. Check the connector in the fusing section.

### H2-02 Thermistor open trouble (TH\_US)

Trouble content	
Detail	PCU
Cause	Thermistor trouble
	PCU PWB trouble
	Thermistor connector and harness connection trouble
	Fusing section connector connection trouble
	Fusing unit not installed
Check & Remedy	Use SIM44-14 to check the state of the thermistor.
	Replace the thermistor.
	Replace the PCU PWB.
	Check connection of the thermistor connector and the
	harness.
	Check the connector in the fusing section.

# H2-03 Thermistor open trouble (TH\_UM\_AD1)

Trouble content	
Detail	PCU
Cause	Thermistor trouble
	PCU PWB trouble
	Thermistor connector and harness connection trouble
	Fusing section connector connection trouble
	Fusing unit not installed
Check & Remedy	Use SIM44-14 to check the state of the thermistor.
	Replace the thermistor.
	Replace the PCU PWB.
	Check connection of the thermistor connector and the
	harness.
	Check the connector in the fusing section.

# **H3-00** Fusing section high temperature trouble (TH\_UM)

Trouble content	
Detail	PCU
Cause	The fusing temperature exceeds the specified level. Thermistor trouble PCU PWB trouble Thermistor connector and harness connection trouble HL control PWB trouble
Check & Remedy	Use SIM44-14 to check the state of the thermistor. Use SIM5-2 to check the flashing operation of the heater lamp. Use SIM14 to cancel the trouble. Replace the thermistor. Replace the PCU PWB. Check connection of the thermistor connector and the harness. Replace the HL control PWB.

# Fusing section high temperature trouble (TH\_LM)

Trouble content	
Detail	PCU
Cause	The fusing temperature exceeds the specified level. Thermistor trouble PCU PWB trouble Thermistor connector and harness connection trouble HL control PWB trouble
Check & Remedy	Use SIM44-14 to check the state of the thermistor. Use SIM5-2 to check the flashing operation of the heater lamp. Use SIM14 to cancel the trouble. Replace the thermistor. Replace the PCU PWB. Check connection of the thermistor connector and the hamess. Replace the HL control PWB.

# Fusing section high temperature trouble (TH\_US)

Trouble content	
Detail	PCU
Cause	The fusing temperature exceeds the specified level. Thermistor trouble PCU PWB trouble Thermistor connector and harness connection trouble HL control PWB trouble
Check & Remedy	Use SIM44-14 to check the state of the thermistor. Use SIM5-2 to check the flashing operation of the heater lamp. Use SIM14 to cancel the trouble. Replace the thermistor. Replace the PCU PWB. Check connection of the thermistor connector and the hamess. Replace the HL control PWB.

# Fusing section low temperature trouble (TH\_UM\_AD2)

Trouble content	The fusing temperature does not reach the specified
	level within the specified time from turning ON the
	power relay.
Detail	PCU
Cause	Thermistor trouble.
	Heater lamp trouble.
	PCU PWB trouble.
	Thermostat trouble.
	Connector, harness connection trouble.
	HL control PWB trouble.
	Power unit trouble.
Check & Remedy	Use SIM14 to cancel the trouble.
	Use SIM44-14 to check the state of the thermistor.
	Use SIM5-2 to check the flashing operation of the
	heater lamp.
	Replace the thermistor.
	Replace the heater lamp.
	Replace the PCU PWB.
	Replace the thermostat.
	Check connection of the connector and the harness.
	Replace the HL control PWB.
	Replace the power unit.

# Fusing section low temperature trouble (TH\_LM)

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Trouble content	The fusing temperature does not reach the specified
	level within the specified time from turning ON the
	power relay.
Detail	PCU
Cause	Thermistor trouble.
	Heater lamp trouble.
	PCU PWB trouble.
	Thermostat trouble.
	Connector, harness connection trouble.
	HL control PWB trouble.
	Power unit trouble.
Check & Remedy	Use SIM14 to cancel the trouble.
	Use SIM44-14 to check the state of the thermistor.
	Use SIM5-2 to check the flashing operation of the
	heater lamp.
	Replace the thermistor.
	Replace the heater lamp.
	Replace the PCU PWB.
	Replace the thermostat.
	Check connection of the connector and the harness.
	Replace the HL control PWB.
	Replace the power unit.

# Fusing section low temperature trouble (TH\_US)

Trouble content	The fusing temperature does not reach the specified
	level within the specified time from turning ON the
	power relay.
Detail	PCU
Cause	Thermistor trouble.
	Heater lamp trouble.
	PCU PWB trouble.
	Thermostat trouble.
	Connector, harness connection trouble.
	HL control PWB trouble.
	Power unit trouble.
Check & Remedy	Use SIM14 to cancel the trouble.
	Use SIM44-14 to check the state of the thermistor.
	Use SIM5-2 to check the flashing operation of the
	heater lamp.
	Replace the thermistor.
	Replace the heater lamp.
	Replace the PCU PWB.
	Replace the thermostat.
	Check connection of the connector and the harness.
	Replace the HL control PWB.
	Replace the power unit.

# H5-01 5 times continuous POD1 not-reach jam

Trouble content	
Detail	PCU
Cause	A fusing jam is not canceled completely. (A jam paper remains.) POD1 sensor trouble Fusing unit installation trouble POD1 sensor connector and harness connection trouble PCU PWB trouble Fusing unit, drive section trouble
Check & Remedy	Replace the POD1 sensor. Check installation of the fusing unit. Replace the fusing unit. Check or repair the fusing drive section. Check connection of the POD1 sensor connector and the harness. Replace the PCU PWB. Use SIM14 to cancel the trouble.

# H7-10 Recovery error from low fuser temp. (TH\_UM\_AD2)

Trouble content	The fusing temperature does not reach the specified
	level within the specified time from stopping a job due
	to fall in the fusing temperature.
Detail	PCU
Cause	Thermistor trouble.
	Heater lamp trouble.
	PCU PWB trouble.
	Thermostat trouble.
	Connector, harness connection trouble.
	HL control PWB trouble.
	Power unit trouble.
Check & Remedy	Replace the thermistor.
	Replace the heater lamp.
	Replace the PCU PWB.
	Replace the thermostat.
	Check connection of the connector and the harness.
	Replace the HL control PWB.
	Replace the power unit.
	Use SIM5-2 to check the flashing operation of the
	heater lamp.

# H7-11 Recovery error from low fuser temp. (TH\_LM)

Trouble content	The fusing temperature does not reach the specified
	level within the specified time from stopping a job due
	to fall in the fusing temperature.
Detail	PCU
Cause	Thermistor trouble.
	Heater lamp trouble.
	PCU PWB trouble.
	Thermostat trouble.
	Connector, harness connection trouble.
	HL control PWB trouble.
	Power unit trouble.
Check & Remedy	Replace the thermistor.
	Replace the heater lamp.
	Replace the PCU PWB.
	Replace the thermostat.
	Check connection of the connector and the harness.
	Replace the HL control PWB.
	Replace the power unit.
	Use SIM5-2 to check the flashing operation of the
	heater lamp.

#### L1-00 Scanner feed trouble

Trouble content	Scanner feed is not completed within the specified
	time.
Detail	SCU
Cause	Scanner unit trouble.
	SCU PWB trouble.
	Scanner control PWB trouble.
	Harness and connector connection trouble.
	Scanner home position sensor trouble.
	Scanner motor trouble.
Check & Remedy	Use SIM1-1 to check the scan operation.
	Replace the scanner unit.
	Replace the SCU PWB.
	Check connection of the connectors and the harness.
	Replace the scanner home position sensor.
	Replace the scanner motor.

### L3-00 Scanner return trouble

Trouble content	Scanner return is not completed within the specified time.
Detail	SCU
Cause	Scanner unit trouble SCU PWB trouble Scanner control PWB trouble Harness and connector connection trouble
	Scanner home position sensor trouble Scanner motor trouble
Check & Remedy	Use SIM1-1 to check the scan operation. Replace the scanner unit. Replace the SCU PWB. Check connection of the connectors and the harness. Replace the scanner home position sensor. Replace the scanner motor.

#### L4-02 Paper feed motor trouble

Trouble content	A lock signal is not detected within the specified time in ON operation of the paper feed motor after warming-up or canceling a jam.
Detail	PCU
Cause	Paper feed motor trouble Paper feed motor harness and connector connection trouble PCU PWB trouble
Check & Remedy	Use SIM6-1 to check the operation of the paper feed motor. Replace the paper feed motor. Check connection of the paper feed motor harness and the connector. Replace the PCU PWB.

### L4-03 Fusing motor trouble

Trouble content	The motor lock signal is detected during rotation of the fusing motor.
Detail	PCU
Cause	Fusing motor trouble Fusing motor harness and connector connection trouble PCU PWB trouble
Check & Remedy	Use SIM6-1 to check the operation of the fusing motor. Replace the Fusing motor. Check connection of the fusing motor harness and the connection. Replace the PCU PWB.

### L4-04 Developing motor trouble (BLACK)

Trouble content	The motor lock signal is detected during rotation of
	the developing motor.
Detail	PCU
Cause	Developing motor trouble
	Developing motor harness and connector connection
	trouble
	PCU PWB trouble
	Developing unit trouble
Check & Remedy	Use SIM25-1 to check the operation of the
	developing motor.
	Replace the developing motor.
	Check connection of the developing motor harness
	and the connection.
	Replace the PCU PWB.
	Replace the developing motor.
	Replace the developing unit.

# L4-05 Developing motor trouble (COLOR)

Trouble content	The motor lock signal is detected during rotation of
	the developing motor.
Detail	PCU
Cause	Developing motor trouble
	Developing motor harness and connector connection
	trouble
	PCU PWB trouble
	Developing unit trouble
Check & Remedy	Use SIM25-1 to check the operation of the
	developing motor.
	Replace the developing motor.
	Check connection of the developing motor harness
	and the connection.
	Replace the PCU PWB.
	Replace the developing motor.
	Replace the developing unit.

#### L4-06 Transfer unit lift trouble

Trouble content	A change in the primary transfer position sensor cannot be detected within the specified time in lifting operation of the primary transfer unit.
Detail	PCU
Cause	Transfer unit position sensor trouble Dirt on the transfer unit position sensor. PCU PWB trouble Connection trouble of the connector and the harness. Transfer unit lift mechanism trouble Primary transfer belt unit is not installed.
Check & Remedy	Use SIM6-3 to check the separating operation of the transfer unit. Install the primary transfer belt unit. Replace the transfer unit position sensor. Clean the transfer unit position sensor. Replace the PCU PWB. Check connection of the connector and the harness. Repair the transfer unit lift mechanism.

# L4-07 Transfer belt motor trouble

Trouble content	
Detail	PCU
Cause	The motor lock signal is detected during rotation of the transfer belt motor.  Transfer belt motor trouble  Transfer belt motor harness and connector connection trouble  PCU PWB trouble
Check & Remedy	Use SIM25-1 to check the operation of the transfer belt motor.  Check the transfer belt motor, and replace if necessary.  Check connection of the harness and connectors of the transfer belt motor, and replace if necessary.  Check the PCU PWB, and replace if necessary.

# L4-11 Shift motor trouble

Trouble content	No change in the shifter home position sensor signal is detected in the operation of the shifter initializing.
Detail	PCU
Cause	Shift motor trouble. PCU PWB trouble. Connection trouble of the connector and the harness. Shifter home position sensor trouble.
Check & Remedy	Use SIM6-1 to check the shift operation. Use SIM30-1 to check the operation of the shifter home position sensor. Replace the shift motor. Replace the PCU PWB. Check connection of the connector and the harness. Replace the shifter home position sensor.

#### **L4-12** Secondary transfer separation trouble

Trouble content	A change in the separation sensor status cannot be detected within the specified time in separation operation of the secondary transfer.
Detail	PCU
Cause	Secondary transfer separation mechanism trouble. Secondary transfer separation clutch trouble. Secondary transfer separation sensor trouble. Connection trouble of the connector and the harness. PCU PWB trouble.
Check & Remedy	Check or repair the secondary transfer separation mechanism.  Replace the secondary transfer separation clutch.  Replace the secondary transfer separation sensor.  Replace the PCU PWB.  Check connection of the connector and the harness.

### L4-16 Fusing pressure release trouble

Trouble content	A change in the fusing pressure release sensor signal cannot be detected within the specified time after outputting the fusing pressure release motor.
Detail	PCU
Cause	Fusing pressure release sensor trouble. Fusing pressure release motor trouble. Pressure release drive gear and pressure release idle gear trouble. PCU PWB trouble. Connection trouble of the connector and the harness.
Check & Remedy	Replace the fusing pressure release sensor. Replace the fusing pressure release motor. Replace the pressure release drive gear and the pressure release idle gear. Replace the PCU PWB. Check connection of the connector and the harness.

### L4-31 Paper exit cooling fan trouble

Trouble content	The fan operation signal is not detected.
Detail	PCU
Cause	Paper exit cooling fan trouble.
	PCU PWB trouble
	Connection trouble of the connector and the harness.
Check & Remedy	Check connection of the connectors and the harness.
	Use SIM6-2 to check the rotating operation of the fan.
	Replace the paper exit cooling fan.
	Replace the PCU PWB.

# L4-32 Power source cooling fan trouble

Trouble content	The fan operation signal is not detected.
Detail	PCU
Cause	Power cooling fan trouble.
	PCU PWB trouble.
	Connection trouble of the connector and the harness.
Check & Remedy	Use SIM6-2 to check that the fan is actually rotating.
	Replace the power cooling fan.
	Replace the PCU PWB.
	Check connection of the connectors and the harness.

### L4-34 LSU cooling fan trouble

Trouble content	
Detail	PCU
Cause	When the LSU cooling fan is operated, the fan operation signal is not detected within the specified time. LSU fan trouble. Harness, connector trouble. LSU mother PWB trouble.
Check & Remedy	Use SIM6-2 to check the fan operation. Check the LSU fan, and replace if necessary. Check the harness/connector, and replace if necessary. Check the LSU mother PWB, and replace if necessary.

### L4-35 Fusing cooling fan trouble

Trouble content	The fan operation signal is not detected.
Detail	PCU
Cause	Fusing cooling fan trouble.
	PCU PWB trouble.
	Connection trouble of the connector and the harness.
Check & Remedy	Use SIM6-2 to check that the fan is actually rotating.
	Replace the fusing cooling fan.
	Replace the PCU PWB.
	Check connection of the connector and the harness.

#### L4-43 Paper exit cooling fan 2 trouble

Trouble content	The fan operation signal is not detected.
Detail	PCU
Cause	Paper exit cooling fan trouble. (Machine R side) PCU PWB trouble. Connection trouble of the connector and the harness.
Check & Remedy	Replace the fan. Replace the PCU PWB. Check the connector and the harness. Use SIM6-2 to check that the fan is actually rotating.

### L4-50 Process fan trouble

Trouble content	The fan operation signal is not detected.
Detail	PCU
Cause	Process fan trouble. PCU PWB trouble.
	Connection trouble of the connector and the harness.
Check & Remedy	Check that the fan is rotating after turning ON the power. Replace the process fan. Replace the PCU PWB. Check connection of the connector and the harness.

# L4-51 Process fan 2 trouble

Trouble content	The fan operation signal is not detected.
Detail	PCU
Cause	Fan trouble.
	PCU PWB trouble.
	Connection trouble of the connector and the harness.
Check & Remedy	Replace the fan.
	Replace the PCU PWB.
	Check the connector and the harness.
	Check that the fan is rotating after turning ON the
	power.

#### L6-10 Polygon motor trouble

Trouble content	The polygon motor does not reach the specified RPM within the specified time after starting rotation of the polygon motor.
Detail	PCU
Cause	Polygon motor trouble. LSU mother PWB trouble. Connection trouble of the connector and the harness.
Check & Remedy	Use SIM61-1 to check the operation of the polygon motor. Check connection of the connector and the harness. Replace the LSU. Replace the LSU mother PWB.

### L8-01 Full wave signal detection error

Trouble content	The full wave signal is not detected.
Detail	PCU
Cause	PCU PWB trouble.
	Power unit trouble.
	Connection trouble of the connector and the harness.
Check & Remedy	Replace the PCU PWB.
	Replace the power unit.
	Check connection of the connector and the harness.

# L8-20 Communication error of MFPC PWB/ LSU mother board

Trouble content	
Detail	MFP
Cause	LSU mother board PWB - MFPC PWB connection trouble.  MFPC PWB trouble.  LSU mother board trouble.
Check & Remedy	Check connection between the LSU mother board PWB and the MFPC PWB. Check the ground of the main unit. Replace the MFPC PWB. Replace the LSU mother board.

#### P1-00 PCI communication error

	<u> </u>
Trouble content	
Detail	MFP
Cause	Communication error between the MFPC PWB and the PCI. Connection failure of connectors and harness between the MFPC PWB and the PCI. MFPC PWB trouble. PCI control PWB trouble.
Check & Remedy	Check connection of the harness and connectors between the MFPC PWB and the PCI. Check the MFPC PWB, and replace if necessary. (Refer to the necessary procedures after replacement of the MFPC PWB in the Service Manual, and perform the procedures.) Check the PCI control PWB, and replace if necessary.

#### P1-01 PCI fan error

Trouble content	
Detail	MFP
Cause	The PCI fan operation signal is not detected. PCI fan trouble. PCI control PWB trouble.
Check & Remedy	Check connection of the connectors and harness between the PCI fan and the PCI control PWB. Check the PCI control PWB, and replace if necessary. Check the PCI fan, and replace if necessary.

### P1-02 Plasma generating device error

Trouble content	
Detail	MFP
Cause	Connection failure of connectors and harness between the plasma generating device and the PCI control PWB.  Plasma generating device trouble.  PCI control PWB trouble.
Check & Remedy	Check connection of the connectors and harness between the plasma generating device and the PCI control PWB.  Replace the plasma generating device.  Check the PCI control PWB, and replace if necessary.

#### PC-- Personal counter not detected

Trouble content	
Detail	MFP
Cause	The personal counter is not installed. The personal counter is not detected. SCU PWB trouble.
Check & Remedy	Check connection of the connectors and the harness. Replace the SCU PWB.

#### U1-01 Battery trouble

Trouble	content	RTC backup battery voltage fall
De	etail	MFP
Case 1	Cause	1) Battery life
		Battery circuit abnormality
	Check	Check to confirm that the battery voltage is about
	and	2.5V or above.
	Remedy	Replace the battery.

#### U2-00 MFP EEPROM read/write error

Trouble content	
Detail	MFP
Cause	MFPC PWB EEPROM trouble
	EEPROM socket contact trouble
	MFPC PWB trouble
	Strong external noises.
Check & Remedy	Replace the MFPC PWB EEPROM.
	Replace the MFPC PWB.
	(Refer to the pages on the necessary works after
	replacing the MFPC PWB in the Service Manual, and
	perform the works.)
	Check the power environment.

#### U2-05 HDD/MFPC PWB SRAM contents inconsistency (18cpm/20cpm/23cpm/31cpm(G) machine)

Trouble content	The HDD or the MFPC PWB installed is improper.
	(Erroneous detection of account management data)
Detail	MFP
Cause	The HDD was replaced.
	The MFPC PWB was replaced.
	HDD trouble
	MFPC PWB trouble
Check & Remedy	(Refer to the pages on the necessary works after
	replacing the HDD and the MFPC PWB in the Service
	Manual, and perform the works.)
	Use SIM16 to cancel the error.

#### **U2-05** Erroneous detection of account management data / HDD internal authentication DB table error (26cpm/36cpm/31cpm(A) machine)

Trouble content	
Detail	MFP
Cause	The HDD internal authentication DB table is broken. After detection of the broken authentication DB table, the machine is rebooted to rebuild the authentication table. This error can be confirmed only by the error history of SIM22-4. If frequent occurrence of this error is found, the following devices may possibly be damaged. HDD trouble MFPC PWB trouble
Check & Remedy	Check the HDD, and replace if necessary. Check the MFPC PWB, and replace if necessary. When replacing the HDD and the MFPC PWB, refer to "Necessary works and procedures for replacement of HDD and MFPC PWB" and perform the necessary procedures. If this error does not occur frequently, the above procedure is not required.

#### **U2-10** MFPC PWB SRAM user authentication index check sum error

Trouble content	
Detail	MFP
Cause	SRAM user index information (user authentication basic data) check sum error. MFPC PWB SRAM trouble. MFPC PWB trouble. Strong external noises.
Check & Remedy	Use SIM16 to cancel the error. (Index information data in the HDD are transferred to the SRAM.) Replace the MFPC PWB. (Refer to the pages on the necessary works after replacing the MFPC PWB in the Service Manual, and perform the works.)

#### U2-11 MFPC PWB EEPROM counter check sum error

Trouble content	
Detail	MFP
Cause	MFPC PWB EEPROM trouble EEPROM socket contact trouble MFPC PWB trouble Strong external noises.
Check & Remedy	Use SIM16 to cancel the error. (The previous writing data (about the latest 8 sheets) are written into the EEPROM.) Replace the MFPC PWB. (Refer to the pages on the necessary works after replacing the MFPC PWB in the Service Manual, and perform the works.)

#### U2-24 MFPC PWB SRAM memory user authentication counter check sum error

Trouble content	
Detail	MFP
Cause	MFPC PWB SRAM trouble
	MFPC PWB trouble
	Strong external noises.
Check & Remedy	Use SIM16 to cancel the error. (The check sum error
	detection data are calculated again to reset the
	proper check sum data.)
	Replace the MFPC PWB.
	(Refer to the pages on the necessary works after
	replacing the MFPC PWB in the Service Manual, and
	perform the works.)

### U2-30 MFPC PWB and PCU PWB manufacturing No. data inconsistency

Trouble content	Inconsistency between the manufacturing No. saved in the PCU PWB and that in the MFPC PWB.
Detail	MFP
Cause	When replacing the PCU PWB or the MFPC PWB, the EEPROM which was mounted on the PWB before replacement is not mounted on the new PWB.  MFPC PWB trouble PCU PWB trouble
Check & Remedy	Check that the EEPROM is properly set. Check to confirm that the EEPROM which was mounted on the PWB before replacement is mounted on the new PWB. Replace the MFPC PWB. (Refer to the pages on the necessary works after replacing the MFPC PWB in the Service Manual, and perform the works.) Replace the PCU PWB.

#### U2-40 SD card system storage data area error

Trouble content	
Detail	MFP
Cause	A file error occurs in the SD card system storage data partition. SD card trouble MFPC PWB trouble
Check & Remedy	Turn OFF/ON the power, and the backup data in the HDD are written into the SD card and the machine is automatically booted.  Check the MFPC PWB, and replace if necessary.  Check the SD card, and replace if necessary.

#### U2-41 HDD system storage data area error

Trouble content	
Detail	MFP
Cause	A file error occurs in the HDD system saved data area, disabling backup of the saved file of the machine adjustment values in the SD card. HDD trouble MFPC PWB trouble
Check & Remedy	Check the HDD, and replace if necessary. Check the MFPC PWB, and replace if necessary. When replacing the HDD and the MFPC PWB, refer to the chapter of "Necessary works and procedures of HDD and MFPC PWB replacement."

# **U2-42** Machine adjustment data (system storage data area) error

Trouble content	
Detail	MFP
Cause	The saved file of the machine adjustment values in the SD card and the HDD cannot be found or is broken.  Both of the SD card set data and the HDD system saved data area are broken.  HDD trouble  MFPC PWB trouble  SD card trouble
Check & Remedy	Check the HDD, and replace if necessary. Check the MFPC PWB, and replace if necessary. Check the SD card, and replace if necessary. When replacing the HDD, the MFPC PWB, and the SD card, refer to the chapter of "Necessary works and procedures of HDD, MFPC PWB, and SD card replacement." Use SIM to adjust the machine again and set the adjustment values.

# U2-50 HDD\*1 user authentication data check sum error

Trouble content	
Detail	MFP
Cause	HDD trouble*1
	MFPC PWB trouble
	Strong external noises.
Check & Remedy	Check the data related to the check sum error (address book, image send system registration data (senders record, meta data)) and register again. Use SIM16 to cancel the U2 trouble. Replace the HDD*1. Replace the MFPC PWB. (Refer to the pages on the necessary works after replacing the HDD and the MFPC PWB in the Service Manual, and perform the works.)*1

<sup>\*1:</sup> SD card when no HDD is installed.

#### U2-60 Watermark check error

Trouble content	
Detail	MFP
Cause	Watermark data trouble HDD trouble MFPC PWB trouble
Check & Remedy	Use SIM16 to cancel the U2 trouble. Use SIM49-5 to install the watermark data. Replace the HDD. Replace the MFPC PWB. (Refer to the pages on the necessary works after replacing the HDD and the MFPC PWB in the Service Manual, and perform the works.)

#### U2-80 SCU PWB EEPROM read/write error

Trouble content	
Detail	SCU
Cause	SCU PWB EEPROM trouble
	SCU PWB trouble
	SCU PWB EEPROM socket connection trouble
Check & Remedy	Replace the SCU PWB EEPROM.
	Replace the SCU PWB.
	Check connection of the SCU PWB EEPROM socket.
	Check the SIM adjustment value of the following
	items, and adjust again if they are improper.
	Scanner-related adjustments
	Touch panel-related adjustments
	Use SIM16 to cancel the trouble.

#### U2-81 SCU PWB EEPROM check sum error

Trouble content	
Detail	SCU
Cause	SCU PWB EEPROM trouble. Installation of non-initialized EEPROM. SCU PWB trouble. EEPROM socket contact trouble.
Check & Remedy	Replace the SCU PWB EEPROM. Replace the SCU PWB. Check contact of the EEPROM socket. Use SIM16 to cancel the trouble. (The check sum error detection data are calculated again to reset the proper check sum data.)

### U2-90 PCU PWB EEPROM read/write error

Trouble content	
Detail	PCU
Cause	PCU PWB EEPROM trouble
	PCU PWB trouble
	EEPROM socket contact trouble
Check & Remedy	Replace the PCU PWB EEPROM.
	Check the SIM adjustment values of the engine, and
	adjust again if they are improper.
	Replace the PCU PWB.
	Check contact of the EEPROM socket.
	Use SIM16 to cancel the trouble.

#### U2-91 PCU PWB EEPROM check sum error

Trouble content	
Detail	PCU
Cause	PCU PWB EEPROM trouble
	PCU PWB trouble
	EEPROM socket contact trouble
Check & Remedy	Replace the PCU PWB EEPROM.
	Replace the PCU PWB.
	Check contact of the EEPROM socket.
	Use SIM16 to cancel the trouble. (The check sum
	error detection data are calculated again to reset the
	proper check sum data.)

# U6-00 PCU PWB - Paper feed desk (paper feed tray 3, 4) communication trouble

Trouble content	
Detail	PCU
Cause	Connection trouble of the connector and the harness.  Paper feed desk control PWB trouble  PCU PWB trouble
Check & Remedy	Check connection of the connector and the harness. Replace the paper feed desk control PWB. Replace the PCU PWB.

### U6-01 Desk paper feed tray 1 lift trouble

Trouble content	D1ULD does not turn ON within the specified time
	when lift-up operation.
Detail	PCU
Cause	D1ULD sensor trouble.
	Desk control PWB trouble.
	Lift unit trouble.
	Connection trouble of the connector and the harness.
	PCU PWB trouble.
Check & Remedy	Replace the D1ULD sensor.
	Replace the desk control PWB.
	Replace the lift unit.
	Check connection of the connector and the harness.
	Replace the PCU PWB.

# U6-02 Desk paper feed tray 2 lift trouble

Trouble content	D2ULD does not turn ON within the specified time
	when lift-up operation.
Detail	PCU
Cause	D2ULD sensor trouble
	Desk control PWB trouble
	Lift unit trouble
	Connection trouble of the connector and the harness.
	PCU PWB trouble
Check & Remedy	Replace the D2ULD sensor.
	Replace the desk control PWB.
	Replace the lift unit.
	Check connection of the connector and the harness.
	Replace the PCU PWB.

#### U6-09 LCC lift motor trouble

Trouble content	No variation in the motor rotation sensor signal (encoder sign) is detected within the specified time after booting or stopping the LCC lift motor.
Detail	PCU
Cause	LCC lift motor rotation sensor trouble LCC control PWB trouble LCC lift mechanism trouble LCC lift motor trouble
Check & Remedy	Use SIM4-2 and 4-3 to check the operation of the LCC sensor and the lift motor. Check the LCC lift motor rotation sensor, and replace if necessary. Check the LCC control PWB, and replace if necessary. Check the LCC lift mechanism, and repair if necessary. Check the LCC lift motor, and replace if necessary. Use SIM15 to cancel the trouble.

# U6-10 Desk paper feed unit paper transport motor trouble

Trouble content	
Detail	PCU
Cause	Desk paper feed motor trouble (motor lock, motor rpm abnormality, over-current to the motor).  Desk control PWB trouble  Connection trouble of the connector and the harness.
Check & Remedy	Use SIM4-3 to check the operation of the desk transport motor.  Replace the desk control PWB.  Replace the desk paper feed motor.  Check connection of the connector and the harness.

# U6-20 LCC control PWB - PCU PWB communication error

Trouble content	
Detail	PCU
Cause	Communication error between the LCC control PWB and the PCU PWB.  Connection trouble of the harness and the connector between the machine and the LCC and those of the LCC control PWB.  LCC control PWB trouble  PCU PWB trouble  Malfunction due to noises.
Check & Remedy	Check to confirm the LCC model. Check the connection of the harness and the connector between the machine and the LCC and those of the LCC control PWB, and replace if necessary. Check the LCC control PWB, and replace if necessary. Check the PCU PWB, and replace if necessary.

#### U6-21 LCC transport motor trouble

Trouble content	No variation in the motor rotation sensor signal (encoder sign) is detected within the specified time after booting or stopping the LCC transport motor.
Detail	PCU
Cause	LCC transport motor rotation sensor trouble LCC control PWB trouble LCC paper transport mechanism trouble LCC paper transport motor trouble
Check & Remedy	Use SIM4-3 to check the operation of the LCC transport motor. Check the LCC transport motor rotation sensor, and replace if necessary. Check the LCC control PWB, and replace if necessary. Check the LCC paper transport mechanism, and replace if necessary. Check the LCC transport motor, and replace if necessary.

### U6-22 LCC 24V power trouble

Trouble content	The power voltage of DC24V is not supplied to the
	LCC unit.
Detail	PCU
Cause	Connection trouble of the harness and the connector between the machine and the LCC and those of the LCC control PWB.  LCC control PWB trouble  Machine power unit trouble
Check & Remedy	Check the connection of the harness and the connector between the machine and the LCC and those of the LCC control PWB, and replace if necessary.  Check the LCC control PWB, and replace if necessary.  Check the machine power unit, and replace if necessary.

#### U6-50 Desk - Main unit combination trouble

Trouble content	
Detail	PCU
Cause	Improper combination between the main unit and the desk.  Desk control PWB trouble.
Check & Remedy	Install a desk which is proper for the main unit mode. Replace the desk control PWB.

#### U6-51 LCC - Main unit combination trouble

Trouble content	An LCC of a different model which is not supported by the machine is installed. (Improper combination of the machine and the LCC model code.)
Detail	PCU
Cause	LCC control PWB trouble PCU PWB trouble
Check & Remedy	Check to confirm the LCC model. Check the LCC control PWB, and replace if necessary. Check the PCU PWB, and replace if necessary.

# U6-52 PCU PWB - Paper feed desk (paper feed tray 2) communication trouble

Trouble content	Paper feed tray 2 (desk unit) is not recognized.
Detail	PCU
Cause	Connection failure between the machine and paper feed tray 2 (desk unit) PCU PWB trouble.
Check & Remedy	Check connection of the connector and the harness. Replace the PCU PWB.

# U7-50 MFPC PWB - Vendor machine communication error

Trouble content	Communication error between the MFP and the serial vendor.
Detail	MFP
Cause	Improper setting of the vendor machine specifications (SIM26-3). Vendor machine trouble. MFPC PWB trouble. Connector, harness connection trouble. Strong external noises.
Check & Remedy	Cancel the error by turning OFF/ON the power. Check the connector and the harness in the communication line. Change the specifications of the vendor machine (SIM26-3). Replace the MFPC PWB.

#### U7-51 Vendor machine error

Trouble content	
Detail	MFP (Notification of a trouble from the serial vendor)
Cause	Serial vendor machine trouble.
	Connector, harness connection trouble.
Check & Remedy	Err.XX is displayed on the operation panel of the vendor. (XX is the detail code.) Repair the vendor machine referring to the detail code. Check the connector and the harness in the communication line.

#### UC-02 CPT - ASIC error

Trouble content	
Detail	SCU
Cause	SCU PWB trouble. (CPT-ASIC trouble.)
Check & Remedy	Replace the SCU PWB.

### UC-20 DOCC ASIC error

Trouble content	
Detail	SCU
Cause	SCU PWB trouble. (DOCC-ASIC trouble.)
Check & Remedy	Replace the SCU PWB.

#### (1) Descriptions on E7-91 - 94 errors

Two-digit numbers with double parentheses are added to E7-91 - 94 error codes recorded in SIM22-6 indicate the detailed contents of the errors.

The number in each digit has its own meaning.

(Example) E7-91(\*\*)

The upper digit of the added code indicates the job kind at the occurrence of the error.

Error	The upper digit of	Image	Job kind at the occurrence	
code	the added code	type	of the error	
E7-91	0*	Other		*1
	1*	JPEG	FAX (Internet FAX)	*1
	2*	JBIG	reception print (Other than	*1
	3*	Mxx1ch	long size images)	
	4*	Mxx4ch		
	5*	Other		*1
	6*	JPEG	FAX (Internet FAX)	*1
	7*	JBIG	reception print	*1
	8*	Mxx1ch	(Long size images)	
	9*	Mxx4ch		
	A* - F*	Not Used		*1
E7-92	0*	Other		*1
	1*	JPEG		
	2*	JBIG	OC copy (in Non ERDH)	*1
	3*	Mxx1ch		*1
	4*	Mxx4ch		
	5* - F*	Not Used		*1
E7-93	0*	Other		*1
	1*	JPEG	Copy print (in ERDH)	
	2*	JBIG	Copy composing system function (Custom Stamp,	
	3*	Mxx1ch	Water mark)	*1
	4*	Mxx4ch	vator marky	
	5*	Other		*1
	6*	JPEG	Image send	
	7*	JBIG	Document filing	
	8*	Mxx1ch	Preview display	
	9*	Mxx4ch		
	A*	Other	ODUDOL saistes saist	*1
	B*	JPEG	<ul><li>GDI/PCL printer print</li><li>Copy composing system</li></ul>	
	C*	JBIG	function (Custom Stamp,	
	D*	Mxx1ch	Water mark)	*1
	E*	Mxx4ch		
	F*	Not Used		*1
E7-94	0*	Other		*1
	1*	JPEG	Backup restore	
	2*	JBIG	Backup restore     (Filing data import)	*1
	3*	Mxx1ch	(1 mily data import)	*1
	4*	Mxx4ch		*1
	5* - F*	Not Used		*1

<sup>\*1:</sup> Added code without generating

The lower digit of the added code indicates the kind and the content of the abnormality or the result of the automatic memory check executed when the abnormality is detected.

				Lower digit of the added code → Kind/Content of the error						
			*1	*9	*A	*B	*C	*D	*E	*F
		Memory verify NG	_	Huffman code error	Restart marker error	Improper marker error	Head decoding error detection (ASIC detection)	Head decoding error detection (CPU detection)	Other abnormal termination	
The upper digit of the	1*, 6*, B*	JPEG	•	_	0	0	0	0	_	0
added code	2*, 7*, C*	JBIG	•	_	_	-	0	0	ı	0
↓	3*, 8*, D*	Mxx1ch	•		_	_				0
Error detection circuit	4*, 9*, E*	Mxx4ch	•	_	_	_	_	_	_	0

- : Added code indicating that the memory and its peripheral must be focused for check in case of an error.
- O: Added code indicating that doubtful sections are in a wider range such as the memory, PWB's, HDD, etc.
- -: Added code without generating

#### (2) Countermeasures in case of E7-91 - 94 In case of E7-9x (11), E7-9x (21), E7-9x (31), E7-9x (41)

Cause	In case of E7-91 - 94, the DIMM memory (DRAM) is automatically read/written to perform a simplified check. If an abnormality is detected in that case, the added code becomes (*1).  Therefore, there is a strong possibility that an abnormality lies around the memory.
Check and remedy	Check the installing state of the DIMM memory and the MFPC PWB to insure that there is no abnormality. (Disconnect and connect the DIMM memory and the MFPC PWB to check to insure that there is no error occurring again.)  Use SIM60-01 (Memory read/write check) to check to insure that no error occurs.  Replace the DIMM memory.  Replace the MFPC PWB.

#### Note

Since the automatic memory check executed when E7-91 - 94 occurs is a simplified check, it cannot detect an abnormality with absolute certainty.

If the added code is (\*1), there may be a memory abnormality. Even if it is not (\*1), however, it cannot be said that there is no abnormality around the memory.

#### Other added codes

Cause	Mostly because the data inputted to the ASIC for decoding are broken for some reasons. There is an abnormality in the process of read/write of the process data in the memory or the hard disk. A great noise unexpectedly generated may be the cause.  For the cases of FAX or Internet FAX reception data, when broken data are saved, printing is performed every time when the machine is booted, generating an error repeatedly. (E7-91) (To clear the received data, execute SIM66-10.)
Check and remedy	<ul> <li>Check the DIMM memory, the MFPC PWB, and the HDD to insure that there is no abnormality.</li> <li>When the job at occurrence of an error is FAX (E7-91), check the installing state of the FAX control PWB and the SC CARD PWB.</li> <li>Perform SIM60-01 (Memory read/write check) to insure that there is no NG.</li> <li>Perform SIM62-02 and SIM62-03 (HDD read/write check) to insure that there is no NG. (It is not required, however, when the job at occurrence of an error is FAX.)</li> <li>Check the installing state of the DIMM memory and the MFPC PWB to insure that there is no abnormality. (Disconnect and connect the DIMM memory and the MFPC PWB to check to insure that there is no error occurring again.)</li> <li>Replace the HDD.</li> <li>Replace the FAX control PWB.</li> <li>Replace the MFPC PWB.</li> <li>Replace the SD card.</li> </ul>

### Note

When there is an abnormality around the HDD, E7-03 may occur. If error E7-91 - 94 as well as E7-03 occurs, there is a high possibility that the error can be removed by replacing the HDD and the MFPC PWB.

# (3) Countermeasures against the case where nothing is displayed when the machine is booted

#### [Trouble content]

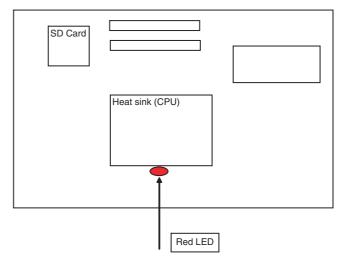
If nothing is displayed when the machine is booted, the error code cannot be checked and the cause is hard to identify.

One of the causes may be an abnormality in the boot program of the SD card. To check that, the following method is used.

#### [Check method]

Check to confirm that the LED (red) under the CPU heat sink on the MFPC PWB shown in the figure below is lighted when the power is supplied.

If the LED is lighted, it is judged as an abnormality of the SD card.



#### [Countermeasures]

- Replace the SD card with a new one. (Be sure to use a service part.)
- 2) Upgrade the firmware to the latest version.
- 3) Use SIIM66-62 to backup the FAX reception data from the HDD to a USB memory device. (If there is no FAX reception data, this procedure is not required.) (The FAX reception data are backed up in the PDF format. Supply the date to the user.)
- Use SIM66-10 to clear the FAX and image send memory. (Ensure consistency between the HDD data and the image related memory.)

# (4) Relation between the MFPC PWB LED status and errors

When the machine cannot be booted, check the LED status of the MFPC PWB to presume the error content and its cause.

#### <Process content and LED display>

LED status (Lighting)	Process operation content	Cause for halt during operation
0000	CPU initial setting	Reus ASIC trouble
000	Memory adjustment	Memory and its peripheral circuit trouble
00•0	Memory check	Memory and its peripheral circuit trouble
00••	_	-
0 • 00	Program memory development	Memory-related trouble
0 • 0 •	Interruption-related initialization	Reus ASIC trouble
0 • • 0	PCIe initialization	PCle and its peripheral circuit trouble (SoC/ACRE, etc.)
$\circ \bullet \bullet \bullet$	Basic device initialization	Reus ASIC trouble
•000	SD card initialization SATA initialization	Reus ASIC trouble SD card trouble HDD trouble
●00●	OS initialization (1)	Reus ASIC trouble
•0•0	Timer enabling	Reus ASIC trouble
• 0 • •	Serial driver enabling I2C driver enabling	Reus ASIC trouble
• • 00	LCD initialization	Reus ASIC trouble
•••	Image process IP initialization	Reus ASIC trouble
$\bullet \bullet \bullet \circ$	OS initialization (2)	Reus ASIC trouble
•••	Main process	Reus ASIC trouble

\* •: LED ON / O: LED OFF

#### <When an error occurs>

LED status (Flashing)	Error content	Cause
000	Nonsupport memory	Memory trouble
00 • 0	Nonsupport memory (access speed)	Memory trouble
00 • •	Nonsupport memory controller	Memory trouble
0 • 00	DDR-PHY setting error	Reus ASIC trouble
0 • • 0	Interruption handler process error	Reus ASIC trouble
•000	Memory check error	Memory trouble
•••	Memory combination error	Memory trouble

\* In case of an error, the LED's flash as shown in the above table.

\* ●: LED ON / O: LED OFF

0000

LED No D25/D24/D23/D22 3 / 2 / 1 / 0

# 2. JAM and troubleshooting

### A. JAM code list

### (1) Main unit (18cpm/20cpm machine)

		JAM detect	tion method	Basic	JAM margin	JAM
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	distance (A) [mm]	distance (B) [mm]	detection distance (A+B) [mm]
TRAY1	Main cassette paper feed JAM (CPFD1 not-reached JAM)	CPUC1 ON	CPFD1 ON	103.4	65.0	168.4
CPFD1_N2	CPFD1 not-reached JAM (Main cassette 2 feed paper)	CPFD2 ON	CPFD1 ON	99.1	65.0	164.1
CPFD1_N3	CPFD1 not-reached JAM (Desk upper stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0
CPFD1_N4	CPFD1 not-reached JAM (Desk lower stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0
TRAY2	CPFD2 not-reached JAM (Main cassette 2 feed paper)	CPUC2 ON	CPFD2 ON	103.4	65.0	168.4
CPFD2_N3	CPFD2 not-reached JAM (Desk upper stage feed paper)	Reception of the paper feed start command from DESK (At position 45mm from the final roller of the DESK.)	CPFD2 ON	35.5	65.0	100.5
CPFD2_N4	CPFD2 not-reached JAM (Desk lower stage feed paper)	Reception of the paper feed start command from DESK (At position 45mm from the final roller of the DESK.)	CPFD2 ON	35.5	65.0	100.5
MFT	Manual feed tray paper feed JAM (PPD1 not-reached)	MPFS ON	PPD1 ON	83.2	65.0	148.2
PPD1_N1	PPD1 not-reached JAM (Cassette 1 feed paper)	CPFD1 ON	PPD1 ON	151.9	65.0	216.9
PPD1_N2	PPD1 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_N3	PPD1 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_N4	PPD1 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_NA	PPD1 not-reached JAM (ADU refeed paper)	APPD2 ON	PPD1 ON	135.7	65.0	200.7
PPD2_N1	PPD2 not-reached JAM (Main cassette feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N2	PPD2 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N3	PPD2 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N4	PPD2 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_NM	PPD2 not-reached JAM (Manual feed tray feed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4
PPD2_NA	PPD2 not-reached JAM (ADU refeed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4
POD1_N	POD1 not-reached JAM	RRM ON	POD1 ON	242.4	50.0	292.4
POD2_N	POD2 not-reached JAM	POD1 ON	POD2 ON	92.2	65.0	157.2
POD3_N	POD3 not-reached JAM	Reversing start	POD3 ON	53.7	65.0	118.7
APPD1_N	APPD1 not-reached JAM	Reversing start	APPD1 ON	39.3	65.0	104.3
APPD2_N	APPD2 not-reached JAM	APPD1 ON	APPD2 ON	226.3	65.0	291.3
CPFD1_S1	CPFD1 remaining JAM (Main cassette paper)	CPUC1 OFF	CPFD1 OFF	144.4	65.0	209.4
CPFD1_S2	CPFD1 remaining JAM (Main cassette 2 feed paper)	CPFD2 OFF	CPFD1 OFF	96.8	65.0	161.8
CPFD1_S3	CPFD1 remaining JAM (Desk upper stage feed paper)	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0
CPFD1_S4	CPFD1 remaining JAM (Desk lower stage feed paper)	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0
CPFD2_S2	CPFD2 remaining JAM (Main cassette 2 feed paper)	CPUC2 OFF	CPFD2 OFF	144.4	65.0	209.4
CPFD2_S3	CPFD2 remaining JAM (Desk upper stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2
CPFD2_S4	CPFD2 remaining JAM (Desk lower stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2

		JAM detec	tion method	Basic	JAM margin	JAM
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	distance (A) [mm]	distance (B) [mm]	detection distance (A+B) [mm]
PPD1_S1	PPD1 remaining JAM (Main cassette paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S2	PPD1 remaining JAM (Main cassette 2 feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S3	PPD1 remaining JAM (Desk upper stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S4	PPD1 remaining JAM (Desk lower stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_SM	PPD1 remaining JAM (Manual feed tray feed paper)	PPD1 ON	PPD1 OFF	Sub scan size –9	65.0	Sub scan size –9+65
PPD1_SA	PPD1 remaining JAM (ADU refeed paper)	APPD2 OFF	PPD1 OFF	131.1	65.0	196.1
PPD2_S1	PPD2 remaining JAM (Main cassette feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S2	PPD2 remaining JAM (Main cassette 2 feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S3	PPD2 remaining JAM (Desk upper stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S4	PPD2 remaining JAM (Desk lower stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_SM	PPD2 remaining JAM (Manual feed tray feed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
PPD2_SA	PPD2 remaining JAM (ADU refeed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
POD1_S	POD1 remaining JAM	PPD2 OFF	POD1 OFF	297.6	65.0	362.6
POD2_S	POD2 remaining JAM (When left paper exit)	POD1 OFF	POD2 OFF	90.2	65.0	155.2
	POD2 remaining JAM (When ADU reversing)	Reversing start	POD2 OFF after starting reversing	Sub scan size -60.6	65.0	Sub scan size -60.6 + 65
POD3_S	POD3 remaining JAM	POD2 OFF after starting reversing	POD3 OFF	68.9	65.0	133.9
APPD1_S	APPD1 remaining JAM	POD2 OFF after starting reversing	APPD1 OFF	111.0	65.0	176.0
APPD2_S	APPD2 remaining JAM	APPD1 OFF	APPD2 OFF	228.8	65.0	293.8
PPD2_PRI	PPD2 JAM (Image preparation wait time- out)	Transmission of the IMAGE_PREPARE command to ICU	Reception time-out of the END_IMAGE_PREPARE command from ICU (50 sec)	_	_	
CPFD2_ DESK	CPFD2 JAM (Desk communication abnormality detection)	Transmission of the preliminary paper feed request command to DESK	Reception time-out of the preliminary paper feed start command from DESK (30 sec)	_	_	_
		Reception of the preliminary paper feed start command from DESK	Reception time-out of the preliminary paper feed end command from DESK (30 sec)	_	_	_
		Transmission of the paper feed request command to DESK	Reception time-out of the paper feed start command from DESK (30 sec)	_	_	_
		Reception of the paper feed start command from DESK	Reception time-out of the paper feed end command from DESK (30 sec)	_	_	_
PPD2_FIN	PPD2 JAM (Finisher communication abnormality detection)	Transmission of the paper attribute data command to FINISHER	Reception time-out of the paper interval data command from FINISHER (30 sec)	_	_	-

### (2) Main unit (23cpm machine)

		JAM detect	JAM detection method			JAM	
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	Basic distance (A) [mm]	JAM margin distance (B) [mm]	detection distance (A+B) [mm]	
TRAY1	Main cassette paper feed JAM (CPFD1 not-reached JAM)	CPUC1 ON	CPFD1 ON	103.4	65.0	168.4	
CPFD1_N2	CPFD1 not-reached JAM (Main cassette 2 feed paper)	CPFD2 ON	CPFD1 ON	99.1	65.0	164.1	
CPFD1_N3	CPFD1 not-reached JAM (Desk upper stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0	
CPFD1_N4	CPFD1 not-reached JAM (Desk lower stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0	

JAM code	JAM content	JAM detection start trigger	tion method  JAM judgment condition	Basic distance (A)	JAM margin distance (B)	JAM detection distance (A+B) [mm]
TRAY2	CPFD2 not-reached JAM	CPUC2 ON	CPFD2 ON	[mm] 103.4	[mm] 65.0	
INAIZ	(Main cassette 2 feed paper)	CFUCZ ON	CF1 D2 ON	103.4	03.0	100.4
CPFD2_N3	CPFD2 not-reached JAM (Desk upper stage feed paper)	Reception of the paper feed start command from DESK (At position 45mm from the final roller of the DESK.)	CPFD2 ON	35.5	65.0	100.5
CPFD2_N4	CPFD2 not-reached JAM (Desk lower stage feed paper)	Reception of the paper feed start command from DESK (At position 45mm from the final roller of the DESK.)	CPFD2 ON	35.5	65.0	100.5
MFT	Manual feed tray paper feed JAM (PPD1 not-reached)	MPFS ON	PPD1 ON	83.2	65.0	148.2
PPD1_N1	PPD1 not-reached JAM (Cassette 1 feed paper)	CPFD1 ON	PPD1 ON	151.9	65.0	216.9
PPD1_N2			PPD1 ON	149.6	65.0	214.6
PPD1_N3	PPD1 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_N4	PPD1 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_NA	PPD1 not-reached JAM (ADU refeed paper)	APPD2 ON	PPD1 ON	135.7	65.0	200.7
PPD2_N1	PPD2 not-reached JAM (Main cassette feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N2	PPD2 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N3	PPD2 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N4	PPD2 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_NM	PPD2 not-reached JAM (Manual feed tray feed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4
PPD2_NA	PPD2 not-reached JAM (ADU refeed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4
POD1_N	POD1 not-reached JAM	RRM ON	POD1 ON	242.4	50.0	292.4
POD2_N	POD2 not-reached JAM	POD1 ON	POD2 ON	92.2	65.0	157.2
POD3_N	POD3 not-reached JAM	Reversing start	POD3 ON	53.7	65.0	118.7
APPD1_N	APPD1 not-reached JAM	Reversing start	APPD1 ON	39.3	65.0	104.3
APPD2_N CPFD1 S1	APPD2 not-reached JAM CPFD1 remaining JAM	APPD1 ON CPUC1 OFF	APPD2 ON CPFD1 OFF	226.3 144.4	65.0 65.0	291.3 209.4
CPFD1_S2	(Main cassette paper) CPFD1 remaining JAM	CPFD2 OFF	CPFD1 OFF	96.8	65.0	161.8
CPFD1 S3	(Main cassette 2 feed paper) CPFD1 remaining JAM	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0
CPFD1_S4	(Desk upper stage feed paper) CPFD1 remaining JAM	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0
CPFD2 S2	(Desk lower stage feed paper) CPFD2 remaining JAM	CPUC2 OFF	CPFD2 OFF	144.4	65.0	209.4
022_02	(Main cassette 2 feed paper)	0. 002 0	0.1520.1		00.0	200.1
CPFD2_S3	CPFD2 remaining JAM (Desk upper stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2
CPFD2_S4	CPFD2 remaining JAM (Desk lower stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2
PPD1_S1	PPD1 remaining JAM (Main cassette paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S2	PPD1 remaining JAM (Main cassette 2 feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S3	PPD1 remaining JAM (Desk upper stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S4	PPD1 remaining JAM (Desk lower stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_SM	PPD1 remaining JAM (Manual feed tray feed paper)	PPD1 ON	PPD1 OFF	Sub scan size –9	65.0	Sub scan size –9+65
PPD1_SA	PPD1 remaining JAM (ADU refeed paper)	APPD2 OFF	PPD1 OFF	131.1	65.0	196.1

		JAM detect	ion method	Danie.	1444	JAM
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	Basic distance (A) [mm]	JAM margin distance (B) [mm]	detection distance (A+B) [mm]
PPD2_S1	PPD2 remaining JAM (Main cassette feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S2	PPD2 remaining JAM (Main cassette 2 feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S3	PPD2 remaining JAM (Desk upper stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S4	PPD2 remaining JAM (Desk lower stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_SM	PPD2 remaining JAM (Manual feed tray feed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
PPD2_SA	PPD2 remaining JAM (ADU refeed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
POD1 S	POD1 remaining JAM	PPD2 OFF	POD1 OFF	297.6	65.0	362.6
POD2_S	POD2 remaining JAM (When left paper exit)	POD1 OFF	POD2 OFF	90.2	65.0	155.2
	POD2 remaining JAM (When ADU reversing)	Reversing start	POD2 OFF after starting reversing	Sub scan size -60.6	65.0	Sub scan size -60.6 + 65
POD3_S	POD3 remaining JAM	POD2 OFF after starting reversing	POD3 OFF	68.9	65.0	133.9
APPD1_S	APPD1 remaining JAM	POD2 OFF after starting reversing	APPD1 OFF	111.0	65.0	176.0
APPD2_S	APPD2 remaining JAM	APPD1 OFF	APPD2 OFF	228.8	65.0	293.8
PPD2_PRI	PPD2 JAM (Image preparation wait time- out)	Transmission of the IMAGE_PREPARE command to ICU	Reception time-out of the END_IMAGE_PREPARE command from ICU (50 sec)	_	_	_
CPFD2_ DESK	CPFD2 JAM (Desk communication abnormality detection)	Transmission of the preliminary paper feed request command to DESK	Reception time-out of the preliminary paper feed start command from DESK (30 sec)	_	_	_
		Reception of the preliminary paper feed start command from DESK	Reception time-out of the preliminary paper feed end command from DESK (30 sec)	_	_	_
		Transmission of the paper feed request command to DESK	Reception time-out of the paper feed start command from DESK (30 sec)	_	_	_
		Reception of the paper feed start command from DESK	Reception time-out of the paper feed end command from DESK (30 sec)	_	_	_
PPD2_FIN	PPD2 JAM (Finisher communication abnormality detection)	Transmission of the paper attribute data command to FINISHER	Reception time-out of the paper interval data command from FINISHER (30 sec)	_	_	_

### (3) 26cpm/31cpm machine

		JAM detec	AM detection method		JAM margin	JAM	
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	Basic distance (A) [mm]	distance (B) [mm]	detection distance (A+B) [mm]	
TRAY1	Main cassette paper feed JAM (CPFD1 not-reached JAM)	CPUC1 ON	CPFD1 ON	103.4	65.0	168.4	
CPFD1_N2	CPFD1 not-reached JAM (Main cassette 2 feed paper)	CPFD2 ON	CPFD1 ON	99.1	65.0	164.1	
CPFD1_N3	CPFD1 not-reached JAM (Desk upper stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0	
CPFD1_N4	PFD1_N4 CPFD1 not-reached JAM CPFD2 ON (Desk lower stage feed paper)		CPFD1 ON	107.0	65.0	172.0	
TRAY2	CPFD2 not-reached JAM (Main cassette 2 feed paper)	CPUC2 ON	CPFD2 ON	103.4	65.0	168.4	
CPFD2_N3	CPFD2 not-reached JAM (Desk upper stage feed paper)	CPFD2 not-reached JAM Reception of the paper feed C		35.5	65.0	100.5	
CPFD2_N4 CPFD2 not-reached JAM (Desk lower stage feed paper)  (At position 45mm from the final roller of the DESK.)		CPFD2 ON	35.5	65.0	100.5		
MFT	Manual feed tray paper feed JAM (PPD1 not-reached)	MPFS ON	PPD1 ON	83.2	65.0	148.2	
PPD1_N1	PPD1 not-reached JAM (Cassette 1 feed paper)	CPFD1 ON	PPD1 ON	151.9	65.0	216.9	

		JAM detec	tion method	Basic JAM margin		JAM detection	
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	distance (A) [mm]	distance (B) [mm]	distance (A+B) [mm]	
PPD1_N2	PPD1 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6	
PPD1_N3	PPD1 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6	
PPD1_N4	PPD1 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6	
PPD1_NA	PPD1 not-reached JAM (ADU refeed paper)	APPD2 ON	PPD1 ON	135.7	65.0	200.7	
PPD1_NL	PPD1 not-reached JAM (LCC feed paper)	Reception of the paper feed start command from LCC (Extension amount 19mm position)	PPD1 ON	141.7	65.0	206.7	
PPD2_N1	PPD2 not-reached JAM (Main cassette feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9	
PPD2_N2	PPD2 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9	
PPD2_N3	PPD2 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9	
PPD2_N4	PPD2 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9	
PPD2_NM	PPD2 not-reached JAM (Manual feed tray feed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4	
PPD2_NA	PPD2 not-reached JAM (ADU refeed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4	
PPD2_NL	PPD2 not-reached JAM (LCC feed paper)	PPD1 ON	PPD2 ON	71.9	65.0	136.9	
POD1 N	POD1 not-reached JAM	RRM ON	POD1 ON	242.4	50.0	292.4	
POD2 N	POD2 not-reached JAM	POD1 ON	POD2 ON	92.2	65.0	157.2	
POD3 N	POD3 not-reached JAM	Reversing start	POD3 ON	53.7	65.0	118.7	
APPD1 N	APPD1 not-reached JAM	Reversing start	APPD1 ON	39.3	65.0	104.3	
APPD2 N	APPD2 not-reached JAM	APPD1 ON	APPD2 ON	226.3	65.0	291.3	
CPFD1_S1	CPFD1 remaining JAM (Main cassette paper)	CPUC1 OFF	CPFD1 OFF	144.4	65.0	209.4	
CPFD1_S2	CPFD1 remaining JAM (Main cassette 2 feed paper)	CPFD2 OFF	CPFD1 OFF	96.8	65.0	161.8	
CPFD1_S3	CPFD1 remaining JAM (Desk upper stage feed paper)	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0	
CPFD1_S4	CPFD1 remaining JAM (Desk lower stage feed paper)	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0	
CPFD2_S2	CPFD2 remaining JAM (Main cassette 2 feed paper)	CPUC2 OFF	CPFD2 OFF	144.4	65.0	209.4	
CPFD2_S3	CPFD2 remaining JAM (Desk upper stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2	
CPFD2_S4	CPFD2 remaining JAM (Desk lower stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2	
PPD1_S1	PPD1 remaining JAM (Main cassette paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9	
PPD1_S2	PPD1 remaining JAM (Main cassette 2 feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9	
PPD1_S3	PPD1 remaining JAM (Desk upper stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9	
PPD1_S4	PPD1 remaining JAM (Desk lower stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9	
PPD1_SM	PPD1 remaining JAM (Manual feed tray feed paper)	PPD1 ON	PPD1 OFF	Sub scan size -9	65.0	Sub scan size -9 + 65	
PPD1_SA	PPD1 remaining JAM (ADU refeed paper)	APPD2 OFF	PPD1 OFF	131.1	65.0	196.1	
PPD1_SL	PPD1 remaining JAM (LCC refeed paper)	Reception of the paper feed end command from LCC (LPFD OFF)	PPD1 OFF	179.1	65.0	244.1	
PPD2_S1	PPD2 remaining JAM (Main cassette feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9	
PPD2_S2	PPD2 remaining JAM (Main cassette 2 feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9	
PPD2 S3	PPD2 remaining JAM	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9	

		JAM detec	tion method	Basia	IAM mannin	JAM
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	Basic distance (A) [mm]	JAM margin distance (B) [mm]	detection distance (A+B) [mm]
PPD2_S4	PPD2 remaining JAM (Desk lower stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_SM	PPD2 remaining JAM (Manual feed tray feed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
PPD2_SA	PPD2 remaining JAM (ADU refeed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
PPD2_SL	PPD2 remaining JAM (LCC feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
POD1_S	POD1 remaining JAM	PPD2 OFF	POD1 OFF	297.6	65.0	362.6
POD2_S	POD2 remaining JAM (When left paper exit)	POD1 OFF	POD2 OFF	90.2	65.0	155.2
	POD2 remaining JAM (When ADU reversing)	Reversing start	POD2 OFF after starting reversing	Sub scan size -60.6	65.0	Sub scan size -60.6 + 65
POD3_S	POD3 remaining JAM	POD2 OFF after starting reversing	POD3 OFF	68.9	65.0	133.9
APPD1_S	APPD1 remaining JAM	reversing		111.0	65.0	176.0
APPD2_S	APPD2_S APPD2 remaining JAM APPD1 OFF		APPD2 OFF	228.8	65.0	293.8
PPD2_PRI	PPD2 JAM (Image preparation wait time- out)	Transmission of the IMAGE_PREPARE command to ICU	Reception time-out of the END_IMAGE_PREPARE command from ICU (50 sec)	_	_	_
CPFD2_ DESK	CPFD2 JAM (Desk communication abnormality detection)	Transmission of the preliminary paper feed request command to DESK	Reception time-out of the preliminary paper feed start command from DESK (30 sec)	_	_	
		Reception of the preliminary paper feed start command from DESK	Reception time-out of the preliminary paper feed end command from DESK (30 sec)	_	_	_
		Transmission of the paper feed request command to DESK	Reception time-out of the paper feed start command from DESK (30 sec)	_	_	_
		Reception of the paper feed start command from DESK	Reception time-out of the paper feed end command from DESK (30 sec)	_	_	_
PPD1_LCC	PPD1 JAM (LCC communication abnormality detection)	Transmission of the preliminary paper feed request command to LCC	Reception time-out of the preliminary paper feed start command from LCC (30 sec)	_	_	_
		Reception of the preliminary paper feed start command from LCC	Reception time-out of the preliminary paper feed end command from LCC (30 sec)	_	_	_
		Transmission of the paper feed request command to LCC	Reception time-out of the paper feed start command from LCC (30 sec)	_	_	_
		Reception of the paper feed start command from LCC	Reception time-out of the paper feed end command from LCC (30 sec)	_	_	_
PPD2_FIN	PPD2 JAM (Finisher communication abnormality detection)	Transmission of the paper attribute data command to FINISHER	Reception time-out of the paper interval data command from FINISHER (30 sec)	_	_	_

#### (4) 36cpm machine

		JAM detect	tion method	Basic	JAM margin	JAM
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	distance (A) [mm]	distance (B) [mm]	detection distance (A+B) [mm]
TRAY1	(CPFD1 not-reached JAM)		CPFD1 ON	103.4	65.0	168.4
CPFD1_N2	PFD1_N2		CPFD1 ON	99.1	65.0	164.1
CPFD1_N3	CPFD1 not-reached JAM (Desk upper stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0
CPFD1_N4	CPFD1 not-reached JAM (Desk lower stage feed paper)	CPFD2 ON	CPFD1 ON	107.0	65.0	172.0
TRAY2	CPFD2 not-reached JAM (Main cassette 2 feed paper)	CPUC2 ON	CPFD2 ON	103.4	65.0	168.4
CPFD2_N3	CPFD2 not-reached JAM (Desk upper stage feed paper)	Reception of the paper feed start command from DESK (At position 45mm from the final roller of the DESK.)	CPFD2 ON	35.5	65.0	100.5

JAM code	JAM content	JAM detection start trigger	tion method  JAM judgment condition	Basic distance (A) [mm]	distance (A) distance (B)	
CPFD2_N4	CPFD2 not-reached JAM (Desk lower stage feed paper)	Reception of the paper feed start command from DESK (At position 45mm from the final roller of the DESK.)	CPFD2 ON	35.5	65.0	( <b>A+B) [mm]</b> 100.5
MFT	Manual feed tray paper feed JAM (PPD1 not-reached)	MPFS ON	PPD1 ON	113.2	65.0	178.2
PPD1_N1	PPD1 not-reached JAM (Cassette 1 feed paper)	CPFD1 ON	PPD1 ON	151.9	65.0	216.9
PPD1_N2	PPD1 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_N3	PPD1 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_N4	PPD1 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD1 ON	149.6	65.0	214.6
PPD1_NA	PPD1 not-reached JAM (ADU refeed paper)	APPD2 ON	PPD1 ON	133.3	65.0	198.3
PPD1_NL	PPD1 not-reached JAM (LCC feed paper)	Reception of the paper feed start command from LCC (Extension amount 19mm position)	PPD1 ON	141.7	65.0	206.7
PPD2_N1	PPD2 not-reached JAM (Main cassette feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N2	PPD2 not-reached JAM (Main cassette 2 feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N3	PPD2 not-reached JAM (Desk upper stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_N4	PPD2 not-reached JAM (Desk lower stage feed paper)	CPFD1 ON	PPD2 ON	71.9	65.0	136.9
PPD2_NM	PPD2 not-reached JAM (Manual feed tray feed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4
PPD2_NA	PPD2 not-reached JAM (ADU refeed paper)	PPD1 ON	PPD2 ON	70.4	65.0	135.4
PPD2_NL	PPD2 not-reached JAM (LCC feed paper)	PPD1 ON	PPD2 ON	71.9	65.0	136.9
POD1_N	POD1 not-reached JAM	RRM ON	POD1 ON	242.4	50.0	292.4
POD2_N	POD2 not-reached JAM	POD1 ON	POD2 ON	92.2	65.0	157.2
POD3_N	POD3 not-reached JAM	Reversing start	POD3 ON	89.5	65.0	154.5
APPD1_N	APPD1 not-reached JAM	Reversing start	APPD1 ON	133.4	65.0	198.4
APPD2_N	APPD2 not-reached JAM	APPD1 ON	APPD2 ON	244.0	65.0	309.0
CPFD1_S1	CPFD1 remaining JAM (Main cassette paper)	CPUC1 OFF	CPFD1 OFF	144.4	65.0	209.4
CPFD1_S2	CPFD1 remaining JAM (Main cassette 2 feed paper)	CPFD2 OFF	CPFD1 OFF	96.8	65.0	161.8
CPFD1_S3	CPFD1 remaining JAM (Desk upper stage feed paper)	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0
CPFD1_S4	CPFD1 remaining JAM (Desk lower stage feed paper)	CPFD2 OFF	CPFD1 OFF	107.0	65.0	172.0
CPFD2_S2	CPFD2 remaining JAM (Main cassette 2 feed paper)	CPUC2 OFF	CPFD2 OFF	144.4	65.0	209.4
CPFD2_S3	CPFD2 remaining JAM (Desk upper stage feed paper)	Reception of the paper feed end command from DESK (The final roller position of DSEK)	CPFD2 OFF	89.2	65.0	154.2
CPFD2_S4			CPFD2 OFF	89.2	65.0	154.2
PPD1_S1	PPD1 remaining JAM (Main cassette paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S2	PPD1 remaining JAM (Main cassette 2 feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S3	PPD1 remaining JAM (Desk upper stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_S4	PPD1 remaining JAM (Desk lower stage feed paper)	CPFD1 OFF	PPD1 OFF	149.9	65.0	214.9
PPD1_SM	PPD1 remaining JAM (Manual feed tray feed paper)	PPD1 ON	PPD1 OFF	Sub scan size –9	65.0	Sub scan size -9 + 65
PPD1_SA	PPD1 remaining JAM (ADU refeed paper)	APPD2 OFF	PPD1 OFF	190.8	65.0	255.8

		JAM detection method		Basic JAM margi		JAM
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	distance (A) [mm]	distance (B) [mm]	detection distance (A+B) [mm]
PPD1_SL	PPD1 remaining JAM (LCC refeed paper)	Reception of the paper feed end command from LCC (LPFD OFF)	PPD1 OFF	179.1	65.0	244.1
PPD2_S1	PPD2 remaining JAM (Main cassette feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S2	PPD2 remaining JAM (Main cassette 2 feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S3	PPD2 remaining JAM (Desk upper stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_S4	PPD2 remaining JAM (Desk lower stage feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
PPD2_SM			PPD2 OFF	61.4	65.0	126.4
PPD2_SA	PPD2 remaining JAM (ADU refeed paper)	PPD1 OFF	PPD2 OFF	61.4	65.0	126.4
PPD2_SL	PPD2 remaining JAM (LCC feed paper)	PPD1 OFF	PPD2 OFF	62.9	65.0	127.9
POD1_S	POD1 remaining JAM	PPD2 OFF	POD1 OFF	297.6	65.0	362.6
POD2_S	POD2 remaining JAM (When left paper exit)	POD1 OFF	POD2 OFF	90.2	65.0	155.2
	POD2 remaining JAM (When ADU reversing)	Reversing start	POD2 OFF after starting reversing	Sub scan size –9.4	65.0	Sub scan size -9.4 + 65
POD3_S	POD3 remaining JAM	POD2 OFF after starting reversing	POD3 OFF	104.9	65.0	169.9
APPD1_S	APPD1 remaining JAM	POD2 OFF after starting reversing	APPD1 OFF	146.7	65.0	211.7
APPD2_S	APPD2 remaining JAM	APPD1 OFF	APPD2 OFF	251.6	65.0	316.6
PPD2_PRI	PPD2 JAM (Image preparation wait time- out)	Transmission of the IMAGE_PREPARE command to ICU	Reception time-out of the END_IMAGE_PREPARE command from ICU (50 sec)	-	_	1
CPFD2_ DESK	CPFD2 JAM (Desk communication abnormality detection)	Transmission of the preliminary paper feed request command to DESK	Reception time-out of the preliminary paper feed start command from DESK (30 sec)	-	_	1
		Reception of the preliminary paper feed start command from DESK	Reception time-out of the preliminary paper feed end command from DESK (30 sec)	_	_	_
		Transmission of the paper feed request command to DESK	Reception time-out of the paper feed start command from DESK (30 sec)	_	_	I
		Reception of the paper feed start command from DESK	Reception time-out of the paper feed end command from DESK (30 sec)	_	_	ı
PPD1_LCC	PPD1 JAM (LCC communication abnormality detection)	Transmission of the preliminary paper feed request command to LCC	Reception time-out of the preliminary paper feed start command from LCC (30 sec)	_		ı
		Reception of the preliminary paper feed start command from LCC	Reception time-out of the preliminary paper feed end command from LCC (30 sec)	_	_	I
		Transmission of the paper feed request command to LCC	Reception time-out of the paper feed start command from LCC (30 sec)	_	_	_
		Reception of the paper feed start command from LCC	Reception time-out of the paper feed end command from LCC (30 sec)	_	_	_
PPD2_FIN	PPD2 JAM (Finisher communication abnormality detection)	Transmission of the paper attribute data command to FINISHER	Reception time-out of the paper interval data command from FINISHER (30 sec)	_	_	

#### (5) RSPF

		JAM detec	tion method	- Basic distance	JAM margin	JAM detection
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	(A) [mm]	distance (B) [mm]	distance (A+B) [mm]
SPPD1_N	SPPD1 not-reached JAM	Paper feed start (When the document width is more than B5 size.)	SPPD1 ON	51.5	450.0	501.5
SPPD2_N	SPPD2 not-reached JAM	Paper feed start (When the document width is less than B5 size.)	SPPD2 ON	90.2	450.0	540.2
		SPPD1 ON (When the document width is more than B5 size.)	SPPD2 ON	38.7	50.0	88.7
SPPD3_N	SPPD3 not-reached JAM	Restart at the temporal stop position	SPPD3 ON	23.7	50.0	73.7
SPPD4_N	SPPD4 not-reached JAM	SPPD3 ON	SPPD4 ON	149.1	50.0	199.1
SPPD2_NR	SPPD2 reverse not- reached JAM	Reversing start	SPPD2 ON	85.5	50.0	135.5
SPPD1_S	SPPD1 remaining JAM	SPPD1 ON (When the document width is more than B5 size.)	SPPD1 OFF	Normal mode: 431.8mm Long size mode: 1000mm/ 800mm (18cpm/ 20cpm/23cpm model 600dpi mode)	50.0	Normal mode: 481.8mm Long size mode: 1050mm/ 850mm (18cpm/ 20cpm/23cpm model 600dpi mode)
SPPD2_S	SPPD2 remaining JAM	SPPD2 ON (When the document width is less than B5 size.)	SPPD2 OFF	Normal mode: 431.8mm Long size mode: 1000mm/ 800mm (18cpm/ 20cpm/23cpm model 600dpi mode)	50.0	Normal mode: 481.8mm Long size mode: 1050mm/ 850mm (18cpm/ 20cpm/23cpm model 600dpi mode)
		SPPD1 OFF (When the document width is more than B5 size.)	SPPD2 OFF	37.8	50.0	87.8
SPPD3_S	SPPD3 remaining JAM	SPPD2 OFF	SPPD3 OFF	68.8	50.0	118.8
SPPD4_S	SPPD4 remaining JAM	SPPD3 OFF	SPPD4 OFF	153.3	50.0	203.3
SPPD2_SR	SPPD2 reverse remaining JAM	SPPD4 OFF	SPPD2 OFF	100.9	50.0	150.9
SPSD_SCN	Exposure start notification timer end	Arrival at temporal stop position	Exposure start command from ICU to SCU no reception time- out (120 sec)	_	_	_
P_SHORT	Short size JAM	SPPD3 ON	When the document length is less than 120.0mm.	_	_	_
SDFS_S	Paper JAM	Start of the light quantity correction between papers	When canceling of the light quantity correction between papers does not make it in time.	_	_	_
ICU_REQ	ICU factor stop JAM	_	Stop by a job stop request commend from ICU to SCU	_	_	_
STOP_JAM	Emergency stop JAM	_	Trouble mode transition request from ICU to SCU Emergency stop by a command	_	_	_

### (6) Desk

JAM code	JAM content	JAM detection method			
JAW Code	JAW content	JAM detection start trigger	JAM judgment condition		
TRAY3	Casette 3 (Desk 1) paper feed JAM	D1PFC ON (Paper feed start)	D1PPD does not turn ON within the specified time.		
DPFD1_N4	DPFD1 not-reached JAM (Desk 2 feed paper)	D2PPD ON	D1PPD does not turn ON within the specified time.		
DPFD1_S3	DPFD1 remaining JAM (Desk 1 feed paper)	D1PPD ON	D1PPD does not turn OFF within the specified time.		
DPFD1_S4	DPFD1 remaining JAM (Desk 2 feed paper)	D2PPD OFF	D1PPD does not turn OFF within the specified time.		
DPFD2_S4	DPFD2 remaining JAM (Desk 2 feed paper)	D2PPD ON	D2PPD does not turn OFF within the specified time.		
TRAY4	Casette 4 (Desk 2) paper feed JAM	D2PFC ON (Paper feed start)	D2PPD does not turn ON within the specified time.		

### (7) LCC

ſ	JAM code	IAM content	JAM detection method			
L	JAW Code	JAM content	JAM detection start trigger	JAM judgment condition		
Ī	LCC	Side LCC paper feed JAM (LPFD not-reached)	LPFC ON (paper feed start)	LPFD does not turn ON within the specified time.		
Ī	LPFD_SL	LPFD remaining JAM (Side LCC feed paper)	LPFD ON	LPFD does not turn OFF within the specified time.		

#### (8) Inner finisher

		JAM	detection method	Basic distance	JAM margin	JAM detection
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	(A) [mm]	distance (B) [mm]	distance (A+B) [mm]
FPPD1_N	Finisher inlet port not-reached JAM	Machine paper exit command reception	FPPD1 does not turn ON within the specified time.	134.602 [mm]	400 [mm]	534.602 [mm]
FPPD1_S	Finisher inlet port remaining JAM (When Long-size paper support OFF)	FPPD1 ON	FPPD1 does not turn OFF within the specified time.	464.803 [mm]	50 [mm]	514.803 [mm]
	Finisher inlet port remaining JAM (When Long-size paper support ON)	FPPD1 ON	FPPD1 does not turn OFF within the specified time.	1207.803 [mm]	50 [mm]	1257.803 [mm]
FPDD_S	Bundle exit remaining JAM	Driving the bundle exit roller is started.	FSTPD does not turn OFF within the specified time.	133.1 [mm]	13.66 [mm]	146.76 [mm]
FIN_TIME	Finisher paper early reaching JAM	FPPD1 ON by the prior paper detection	FPPD1 of the next paper turns ON at the timing earlier than the specified paper interval.	Specified paper interval time	30 [mm]	(Paper interval time) - (Paper transport time of 30 [mm]) [msec]
FSTPD_S	Finisher paper exit remaining JAM	Driving the paper exit roller in the straight mode is started.	FSTPD does not turn OFF within the specified time.	96.76 [mm]	50 [mm]	146.76 [mm]
FSTPLJ	Staple JAM	FSHPS OFF after FSM ON	FSHPS does not turn ON within the specified time.	350 [msec]	250 [msec]	600 [msec]

#### (9) Saddle finisher

		JAM	detection method	Basic distance	JAM margin	JAM detection	
JAM code	JAM content	JAM detection start trigger JAM judgment condition		(A) [mm]	distance (B) [mm]	distance (A+B) [mm]	
PDPPD1_N	Interface inlet port not- reached JAM	Machine paper exit command reception	PDPPD1 does not turn ON within the specified time.	79.6 [mm]	238.8 [mm]	318.4 [mm]	
PDPPD1_S	Interface inlet port remaining JAM	PDPPD1 ON	PDPPD1 does not turn OFF within the specified time.	(Paper length + 11.3) [mm]	(Paper length + 11.3) [mm]	(Paper length + 11.3) x 2 [mm]	
PDPPD2_N	Interface outlet port not- reached JAM	PDPPD1 ON	PDPPD2 does not turn ON within the specified time.	318.7 [mm]	318.7 [mm]	637.4 [mm]	
PDPPD2_S	Interface outlet port remaining JAM	PDPPD2 ON	PDPPD2 does not turn OFF within the specified time.	(Paper length + 11.3) [mm]	(Paper length + 11.3) [mm]	(Paper length + 11.3) x 2 [mm]	
FPPD1_N	Finisher inlet port not- reached JAM	PDPPD2 ON	FPPD1 does not turn ON within the specified time.	180.3 [mm]	180.3 [mm]	360.6 [mm]	
FPPD1_S	Finisher inlet port remaining JAM	Paper reaches the finisher speed change position.	FPPD1 does not turn OFF within the specified time.	108.4 [mm]	216.8 [mm]	325.2 [mm]	
FPPD2_N	Saddle section not- reached JAM	The lead edge of paper reaches the position of 20mm past the saddle No. 1 transport roller.	FPPD2 does not turn ON within the specified time.	110.4 [mm]	110.4 [mm]	220.8 [mm]	
FPPD2_S	Saddle section remaining JAM	The rear edge of paper reaches the position of 20mm past the process roller.	FPPD2 does not turn OFF within the specified time.	220.4 [mm]	220.4 [mm]	440.8 [mm]	
FPDD_S	Bundle exit remaining JAM	Gripper discharging is started.	FATPD does not turn OFF within the specified time.	437 [msec]	437 [msec]	874 [msec]	
		Gripper discharging is completed.	FPDD does not turn ON when gripper discharging is completed.			FPDD OFF	

JAM code	JAM content	JAM JAM detection start trigger	detection method  JAM judgment condition	Basic distance (A) [mm]	JAM margin distance (B) [mm]	JAM detection distance (A+B) [mm]
FSTPLJ	Staple JAM	Driving the staple motor is started.	FSHS ON is not detected within the specified time after detection of FSHS OFF during stapling operation, and FSHS ON is detected by reverse rotation of the staple motor after stapling operation is stopped.	400 [msec]	200 [msec]	600 [msec]
		Staple extending operation is started.	Staple extending cannot be executed by execution of staple feeding by the specified number of times (9 times) during staple extending operation.			9 times
		Driving the saddle staple motor is started.	FSSHS ON is not detected within the specified time after detection of FSSHS OFF during stapling operation, and FSSHS ON is detected by reverse rotation of the staple motor after stapling operation is stopped.	480 [msec]	240 [msec]	720 [msec]
		Saddle staple extending operation is started.	Staple extending cannot be executed by execution of staple feeding by the specified number of times (14 times) during staple extending operation.			14 times
FPNCHJ	Punch JAM	Punch motor stop	FPCHPS does not turn ON after punching operation.			FPCHPS OFF
FIN_TIME	Finisher paper early reaching JAM	Paper exit command of the preceding paper	The paper exit command of the next paper is received at the timing earlier than the specified paper interval.	Specified paper interval time	150 [msec]	(Specified paper interval time) - 150) [msec]
FIN_PAOF	Paper attribute data reception overflow	Paper information data command is received.	Paper information data of more than allowable buffer (16 sheets) are received.			16 sheets
FPATPD_S	Saddle transport remaining JAM	Transport operation is started after folding operation.	FSATPD does not turn OFF within the specified time.	(Paper length/ 2 – 26.2) [mm]	(Paper length/ 2 – 26.2) [mm]	(Paper length/ 2 – 26.2) x 2 [mm]
FPPD3_N	Saddle paper exit not- reached JAM	Thrusting operation is started.	FPPD3 does not turn ON within the specified time.	66.9 [mm]	66.9 [mm]	133.8 [mm]
FPPD3_S	Saddle paper exit remaining JAM	Transport operation is started after folding operation.	FPPD3 does not turn OFF within the specified time.	(Paper length/ 2 – 26.2) [mm]	(Paper length/ 2 – 26.2) [mm]	(Paper length/ 2 – 26.2) x 2 [mm]
FSSMJ	Stapler shift motor JAM	Driving the stapler shift motor is started.	Change from FSSHPS ON to OFF is not detected within the specified time during the stapler shift operation.	1434 [msec]	1434 [msec]	2868 [msec]
			Change from FSSHPS OFF to ON is not detected within the specified time during the stapler shift operation.	2085 [msec]	2085 [msec]	4170 [msec]
			Change from FSSSHPS ON to OFF is not detected within the specified time during the stapler shift operation.	401 [msec]	401 [msec]	802 [msec]
			Change from FSSSHPS OFF to ON is not detected within the specified time during the stapler shift operation.	3179 [msec]	3179 [msec]	6358 [msec]
			Change from FSSSW2 ON to OFF is not detected within the specified time during the stapler shift operation.	138 - 503 [msec]	138 - 503 [msec]	276 - 1006 [msec]
			Change from FSSSW2 OFF to ON is not detected within the specified time during the stapler shift operation.	291 - 803 [msec]	291 - 803 [msec]	582 - 1606 [msec]
FDRLMJ	Paper exit roller lift motor JAM	Driving the finisher paper exit roller lift motor is started.	Change from FDRHS ON to OFF is not detected within the specified time during the paper exit roller lift operation.	176 [msec]	176 [msec]	352 [msec]
			Change from FDRHS OFF to ON is not detected within the specified time during the paper exit roller lift operation.	235 [msec]	235 [msec]	470 [msec]
FSDMJ	Saddle motor JAM		JAM which is not detected yet			

		JAM detection method		Basic distance	JAM margin	JAM detection	
JAM code	JAM content	JAM detection start trigger	JAM judgment condition	(A) [mm] distance (B) [mm]		distance (A+B) [mm]	
FGMJ	Gripper motor JAM	Driving the gripper motor is started.	Change from FGHPS ON to OFF is not detected within the specified time during the gripper operation.	187 [msec]	187 [msec]	374 [msec]	
			Change from FGHPS OFF to ON is not detected within the specified time during the gripper operation.	535 [msec]	535 [msec]	1070 [msec]	
FSPTMJ	Saddle paper transport motor JAM	Driving the saddle paper transport motor is started.	Change from FSRHS ON to OFF is not detected within the specified time during the paper transport roller lift operation in the saddle section.	37 [msec]	37 [msec]	74 [msec]	
			Change from FSRHS OFF to ON is not detected within the specified time during the paper transport roller lift operation in the saddle section.	24 [msec]	24 [msec]	48 [msec]	

### 3. Image send communication report code

#### A. Outline and code system descriptions

After completion of communication, the communication report table, the communication management table, and the protocol are described on the communication report column.

The communication report code is composed as follows:

Communication report: XX (XXXX)

The upper 2 digits of the communication report code:

Communication report code of 00-99 (Refer to communication report main code.)

The lower 4 digits of the communication report code: Used by the serviceman.

The upper 2 digits: Communication report sub code 1 (Refer to communication report sub code 1.)

The lower 2 digits: Communication report sub code 2 (Refer to communication report sub code 2.)

### Important

The communication report sub code 1 and sub code 2 are in hexadecimal notation. (The others are in decimal notation.)

### Important

The communication report sub code 1 is not used in the these models

#### B. Details

#### (1) Communication report main code

Report	Final receive signal	T
code	(Send side)	Final receive signal (Receive side)
0	Abnormal signal	Abnormal signal
1	NSF, DIS	(SID), (SUB), NSS, DCS
2	CFR	(PWD), (SEP), NSC, DTC
3	FTT	EOP
4	MCF	EOM
5	PIP, PIN	MPS
6	RTN, RTP	PRI-Q
7	No signal, DCN	DCN
8	PPR	PPS-EOP
9		PPS-EOM
10		PPS-MPS, PPS-NULL
11	RNR	RR
12	CTR	СТС
13	ERR	EOR-Q
14		PPS-PRI-Q
16	Abnormal signal	Abnormal signal
17	NSF, DIS	SID, SUB, NSS, DCS
18	CFR	PWD, SEP, NSC, DTC
19	FTT	PPS-EOP
20	MCF	PPS-EOM
21	PIP, PIN	PPS-MPS, PPS-NULL
22	RTN, RTP	PRI-Q
23	No signal, DCN	DCN
24	PPR	
25	RNR	RR
26	CTR	СТС
27	ERR	EOR-Q
28		PPS-PRI-Q
29	V.8 Phase-1	V.8 Phase-1
30	V.8 Phase-2	V.8 Phase-2
31	V.8 Phase-3	V.8 Phase-3



For report codes 16 – 31, V.34 MODE COMMUNICATION.

Report code (Communication result)	Display in the column of result	Content of communication interruption
0 – 31	Refer to "previous table".	Depends on the point of communication interruption. For 16 or later, V.34 mode communication.
33	BUSY	The calling side cannot establish connection with the remote party.
34	CANCEL	A communication interruption command is made during sending/receiving. The interruption key is pressed for interruption of input. <send board="" bulletin="" polling="" receive=""></send>
35	NG35 XXXX	Power is failed during sending/receiving. <send board="" bulletin="" polling="" receive=""></send>
36	(No record paper)	
37	(Record paper jam)	
38	MEM. FULL	Memory over during reception. <receive polling=""> Print is not made during reception in acting reception inhibit. <receive polling=""></receive></receive>
39	(Number of paper unmatched)	
40	(Relay not received)	
41	LENGTH OVER	The send data length of one page exceeds the limit (2m) in sending. <send board="" bulletin=""></send>
42	LENGTH OVER	The receive data length of one page exceeds the limit. <receive polling=""></receive>
43	(Communication) (OK) ORIGINAL ERROR	Speaking before data transmission  A document jam occurs in direct sending. <send></send>
45	(Picture quality error)	A document jain occurs in direct sending. Send
46	NO RESPONSE	The FAX signal from the remote party is not detected within T1 time. <send polling=""></send>
47	TX DECODE ERROR	(When in recall, however, the recall setting in case of a communication error is valid.)  A decode error occurs in the FAX board. <send board="" bulletin=""></send>
48	OK	Normal end of communication
40	OK REPLY RECEIVE	OK in Internet FAX send with reception confirmation.
49	NO RX POLL	The called side does not have polling function in polling reception. <polling></polling>
50	RX POLL FAIL	The called side has no data to send. <polling> In polling reception, DCN is received for DTC. <polling></polling></polling>
50	KA FOLL FAIL	In polling sending, there is no send data. <bulletin board=""></bulletin>
51	PASS # NG	In poling sending, the allow number is not matched. <bulletin board=""></bulletin>
52	(No confidential function in	In polling sending, the system number is not matched. <bulletin board=""> In confidential sending, the remote party does not have confidential function. <send></send></bulletin>
32	remote party)	(Including other company's machines)  1) The NSF signal has not "Confidential function" bit.  2) The NSF is not a Sharp machine.
53	(Confidential not received)	In confidential sending, DCN is received for NSS. <send></send>
54	(Confidential BOX NO NG)	In confidential reception, a confidential box number which is not registered is specified.
55	(No relay function in	In relay command sending, the remote machine has no relay function. <send></send>
	remote party)	<ul><li>(Including other company's machine)</li><li>1) The NSF signal has not "Confidential function" bit.</li><li>2) The NSF is not a Sharp machine.</li></ul>
56	NO REL RX	In relay command sending, DCN is received for NSS. <send>     In relay command reception, a remote station number which is not registered is specified. <receive>     In F code relay broadcasting, an F code relay command is received. <receive></receive></receive></send>
57	(Relay ID unmatched)	In relay command reception, the relay ID does not match. <receive></receive>
58	REJECTED	In reception, data are sent from a remote machine of receive inhibit number. <receive> (Not rejected in the bulletin board send or the F code bulletin board send.)</receive>
59	RX NO F-CODE POLL	In F code polling (calling), the remote machine has no DIS bit 47 (polling function). <polling> In F code polling (calling), the called side has no send data. (DIS bit 9 is 0.)<polling></polling></polling>
60	NO F-CODE POLL	In F code polling (calling), DCN is received for SEP. <polling> In bulletin board, there is no send data for SEP. <bulletin board=""></bulletin></polling>
61	RX POLL # NG	In bulletin board, the sub address (bulletin board number (SEP)) is not matched. <bulletin board=""></bulletin>
62	F POLL PASS # NG	In bulleting board, the pass code (PWD) is not matched. <bulletin board=""></bulletin>
63	NO F FUNC	In F code sending, the remote machine has no DIS bit 49 (sub address function). <send> (Check that the remote machine conforms to F code.)</send>
64	NO F-CODE	In F code sending: <send> 1) DCN is received for SUB Check the box number. 2) DCN is received for SID Check the box number and pass code.  In F code receiving: <receive> "F code relay broadcasting" or "F code confidential reception" is "Inhibited with soft SW."</receive></send>
67	F PASS # NG	In F code receiving, the pass code (SID) is not matched. <receive></receive>
68	BOX NO. NG	In F code reception, a box number which is not registered is specified. (SUB is not matched.) <receive></receive>
69	MEMORY OVER	Memory over in quick online sending <send></send>
70	(JOB MEMORY OVER)	In PC-FAX reservation, the number of remote parties is exceeded. <send></send>
71	NG71 XXXX *1	In PC-FAX reservation, data sent from PC includes some errors. <send></send>
72	(NG72 XXXX) *1	In department management setting on the machine side:  In reservation from PC-FAX or PC-Internet FAX, a department number which is not registered on the machine side is specified. <send>  In reservation from PC-FAX or PC-Internet FAX, the department number is not specified. <send></send></send>
73	NG73 XXXX *1	In reservation from PC-FAX or PC-Internet FAX, the use quantity limit is exceeded. <send></send>
74	NG74 XXXX *1	When reserving specified filing in document filing in PC-FAX or PC-Internet FAX;  The pass-code for the folder is set on the machine side and the pass-code from PC-XXX does not match with it. <send>  The pass-code for the folder is set on the machine side and no pass-code is specified by PC-XXX. <send></send></send>

Report code (Communication result)	Display in the column of result	Content of communication interruption
75	NG75 XXXX *1	Reservation cannot be made due to machine busy. (Reservation of PC-FAX cannot be accepted.) When "PC-FAX or PC-internet FAX send inhibit" is set on the machine side.
76	NG76 XXXX *1	Reserved with receive confirmation request in PC-Internet FAX, but the Internet FAX sender is not registered on the machine side. <send></send>
77	NG77 XXXX *1	In reserving specified filing in PC-FAX or PC-Internet FAX, the machine has no filing function.
78	NG78 XXXX *1	The filing function is inhibited on the machine side when filing specification is reserved by PC-FAX or PC-Internet FAX.
79	NG79 XXXX *1	An authentication error occurs when PC-FAX or PC-Internet FAX is reserved.
80	NG80 XXXX *1	NIC connect failure (network abnormality)  Check for disconnection of cables.  A network trouble (CE-XX) occurs.  The port is set to DISABLE.  Authentication of the POP server is failed when POP before SMTP is enabled.  When an error other than the communication result code 93 or 94 in D-SMTP send (including error response of 5XX)
81	NG REPORT	<ul> <li>In Internet FAX send, reply of receive confirmation of the remote machine is not normal. (Including PC-Internet FAX).</li> <li>Error of the disposition-modifier.</li> <li>The disposition modifier is not in an error, and the disposition type is other than displayed, dispatched, or processed.</li> </ul>
82	NO REPORT	In Internet FAX send, time-out occurs in waiting for receive confirmation from the remote machine. (Including PC-Internet FAX).  In a case where send confirmation wait time-out time is other than 0, when send confirmation reply from an Internet FAX destination is not received.  Recalls of the set number of recalls are performed, but send confirmation reply from an internet FAX destination is not received.
83	NG LIMIT	In E-mail/FTP, Internet FAX send, the send data size exceeds the upper limit of send data.
84	REJECTED	In e-mail receive, a sender is registered in receive reject address/domain. <receive></receive>
85	NG85 XXXX *1	In e-mail receive, an error occurs in communication with POP3 server.  • Header acquisition error.  • Time-out during mail receive
86	RECEIVED	In e-mail receive, an unsupported attached file is received. Only the TIFF-F type is supported for attached files.  • The TIFF-F type of the attached file cannot be recognized.  • There is no attached file.
87	NG87 XXXX *1	In e-mail receive, an attached file cannot be stored in memory.  • Memory over
88	NG88 XXXX *1	In SMTP e-mail receive, an attached file cannot be stored in memory.  Cannot be stored in memory.  The number of items of acting receive data is the maximum, and an additional data cannot be stored.
89	NG89 XXXX *1	In SMTP e-mail receive, an error occurs in communication with the mail server.  • Time-out occurs during e-mail receive.
90	NG90 XXXX *1	After reservation by re-operation of document filing, conversion for image send cannot be made.
91	NG91 XXXX *1 *2	Data cannot be written to the memory device when Scan To USB is executed.  The memory device is disconnected during writing to the memory device.  An error occurs due to a memory device trouble.
92	NG92 XXXX *1 *2	The USB device memory overflows during writing data into the memory device when "Scan to USB" is executed.
93	NG93 XXXX *1	When error in D-SMTP send (with recall)  An error response of 4XX occurs during communication with the SMTP server.  Time out occurs after establishment of connection with the SMTP server.
94	NG94 XXXX *1	When busy in D-SMTP send Time out occurs during establishment of connection with the SMTP server.
95	NG95 XXXX *1	When the path is too long in execution of Scan To USB.
96	NG96 XXXX *1	When the normal process is not executed in the secure mail sending.
98	NG98 XXXX *1	The copy inhibit pattern is detected when scanning a document.
99	NG99 XXXX *1	A document which is inhibited to be copied such as a banknote is scanned.

<sup>\*1:</sup> For a job status result in "Display in the column of result," "NG  $\triangle \triangle$  XXXX" is displayed. " $\triangle \triangle$ " is the code number. For a communication result, "Communication error  $\triangle \triangle$  (XXXX)" is displayed.

- When the communication result is OK, the communication sub code 1 and the communication sub code 2 are "0000."
- Errors in ( ) are not used.

<sup>\*2:</sup> The error code of Scan To USB is specified only in the job log.

#### (2) Communication report sub code 1

The communication report sub code 1 (upper 2 digits) are always indicated as "00."

#### (3) Communication report sub code 2

Report code 2	Content of communication interruption	Send/Receive
00	When the conditions after 01 do not apply.	Send/Receive
01	Send length over	Send
02	EOL time up	Receive
03	Carrier detection time up	Receive
04	Time up of the communication start command from the machine side	Receive
05	Time up in phase C (8 min)	Send
06	Memory image decode error	Receive
07	Memory image decode error	Send
08	Time up between frames in phase C (Report code is 0 or 16.)	Send/Receive
09	Not used	
10	Not used	
11	Polarity reversion detection	Receive
12	Invalid command reception	Receive
13 14	Time up (1-minute timer/6-second time) PUT error	Receive
15		Receive Receive
16	In V.34 mode, time up is generated when shifting from Primary to Control.  In V.34 mode, time up is generated when shifting from Control to Primary.	Receive
17	Command receive time-up from MFP controller	Receive
18	Not used	-
19	Not used	
20	Polarity reversion detection	Send
21	Invalid command reception	Send
22	Fallback retry number over	Send
23	Command retry number resend over	Send
24	Time up (T5 timer)	Send
25	Time up (T5 timer) in V.34 mode	Send
26	In V.34 mode, time up is generated when shifting from Primary to Control.	Send
27	In V.34 mode, time up is generated when shifting from Control to Primary.	Send
28	When sending the FSK signal, no response of send completion is sent back from the MODEM chip within a certain time.	Send
	(V.34, other than V.34)	
29	Not used	_
30	A communication error is generated between MFP controller and Modem controller. (Report code is 0 or 16.)	_
31	DC current not detected (busy)	Send
32	Dial tone not detected (busy)	Send
33	Busy tone detection (busy)	Send
34	T0 time up (Remote machine not responding)	Send
35	T1 time up (Remote machine not responding)	Send
36	In dialing, polarity reversion detection (Remote machine not responding)	Send
37	Calling is not made (busy) <collision (including="" cng="" detected="" detection)=""></collision>	Send
38	Not used	
60	In resend of document filed data, an error occurs in decoding or coding.	Resend
61	In resend of document filed data, setting to inhibit resolution conversion is made. (The resolution after resend is set to be	Resend
	Enlarged.)	
62	In resend of document filed data, rotation setting is made for data which cannot be rotated.	Resend
63	In resend of document filed data, data cannot be stored in HD after conversion of resolution for resend.	Resend
64	In resending data of document file, during conversion for resending, the number of IMS management pages exceeds the	Resend
70	upper limit (999). (IT occurs in OSA Scan to FTP also, resulting in memory over.)	OSAScanToFTP
70 71	E-mail header acquisition error  Time out occurs during e-mail receive	E-mail receive E-mail receive
71	Time out occurs during e-mail receive.	E-mail receive
73	Receive reject occurs during e-mail receive.  Network communication cannot be made due to port disable.	Network send
74	An authentication of the POP server is failed when POP before SMTP is enabled.	Network send
75	In the setting of SSL communication, when SSL communication is tried but the server side does not support SSL.	Network send
76	There is no image in network communication (transfer).	Network send
80	There is no attached file in received e-mail.	E-mail receive
81	The attached file of received e-mail is not of TIFF type which is supported.	E-mail receive
82	The attached life of received e-mail is not of this type which is supported.  The TIFF type of the attached file in received e-mail cannot be recognized.	E-mail receive
02	ID error	_ man receive
83	The TIFF type of the attached file in received e-mail cannot be recognized.  Endian error	E-mail receive
84	The TIFF type of the attached file in received e-mail cannot be recognized.  Version error	E-mail receive
85	The TIFF type of the attached file in received e-mail cannot be recognized.  Tag data error	E-mail receive
86	The TIFF type of the attached file in received e-mail cannot be recognized.  Tag parameter error	E-mail receive
87	The TIFF type of the attached file in received e-mail cannot be recognized. Header size error	E-mail receive

Report code 2	Content of communication interruption	Send/Receive
88	The TIFF type of the attached file in received e-mail cannot be recognized.	E-mail receive
	Data error	
90	In e-mail receive, an attached file cannot be stored in memory.	E-mail receive
	Memory over.	
	Cannot be stored in memory.	
91	In e-mail receive, an attached file cannot be stored in memory.	E-mail receive
	The file size is too great to be stored in memory.	
92	In SMTP e-mail receive, an attached file cannot be stored in memory.	E-mail receive
	Cannot be stored in memory.	

When the sub code 2 is "08" or "30" and the communication report is "OK," the report code is "00" or "16."

#### 4. Dial tone

When shipping from the factory, the dial tone detection when sending is set to Enable (changed from OFF to ON). When installing this machine, be sure to check and confirm that the dial tone is properly detected and the auto dial sending is enabled.

Check to confirm that the continuous buzzer sound is heard when the on-hook key is pressed. (Press the on-hook key again to cancel the buzzer sound.)

If facsimile communication cannot be executed normally through the IP telephone line, try the general telephone line.

### [7] FIRMWARE UPDATE

#### 1. Outline

#### A. Cases where update is required

ROM update is required in the following cases:

- 1) When there is a necessity to upgrade the performance.
- When installing a new spare part ROM for repair to the machine.
- When installing a new spare parts PWB unit (with ROM) for repair to the machine.
- When there is a trouble in the ROM program and it must be repaired.

#### B. Notes for update

#### (1) Relationship between each ROM and update

Before execution of ROM update, check combinations with ROM's installed in the other PWB's including options. Some combinations of each ROM's versions may cause malfunctions of the machine.

#### C. Update procedures and kinds of firmware

There are following methods of update of the firmware.

- 1) Update method using SIM 49-1
- 2) Update method using FTP
- 3) Update method using the Web page
- Update method using the CN update function (There are three methods.)

Normally, one of 1) - 3) is used to update the firmware.

When any one of 1) - 3) is interrupted by an error such as power-off during updating, etc., and when retries of these methods are failed, the method 4) is employed.

#### Firmware types

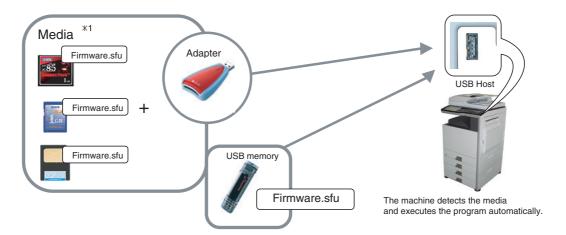
The firmware type can be displayed by SIM22-5.

Use SIM22-5 to check the firmware type.

#### 2. Update procedure

#### A. Update method using SIM 49-1

For the update, connect the media or USB memory to the USB port that exists in the main body, and select the firmware data in the media or USB memory by simulation screen in the main unit.



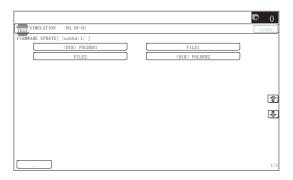
\*1:

- Store the firmware data (xxx .sfu) to the media or USB memory beforehand.
- The media used for the update must have an enough capacity for storing the firmware data.
- The USB memory equipped with the security (secure) function cannot be used.

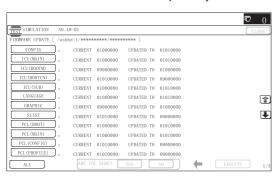
Execution of the firmware by SIM49-01

- Insert the media or USB memory which stores the firmware into the main unit. (Be sure to use the USB I/F on the operation panel.)
- 2) Enter the SIM49-01.

Press the key of the file to be updated. The screen transfers to the update screen.

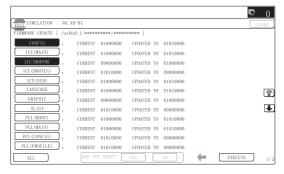


- \* The number of key changes according to the number of the sfu file in the media or USB memory inserted.
- \* If the media or USB memory was not inserted when entry to the SIM49-01 screen, "INSERT A USB MEMORY DEVICE CONTAINING MFP FIRMWARE [OK]" is displayed on the screen. Insert the media or USB memory and push the [OK] key to open the file. If the media have not been inserted and [OK] key is pushed, the next screen does not appear and the screen waits the entry. Conversely, if the media or USB memory is pulled out on the file list screen, the error is detected by the [FILE] key pressing, and the first screen appears.
- Current version number and the version number to be updated will be shown for each firmware respectively.



4) Press [ALL] key.

All the firmware programs are selected.

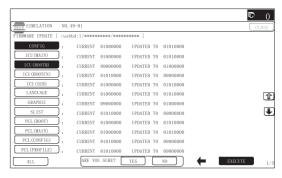


- \* Normally select all the firmwares and execute updating.
- \* In this case, firmwares which do not exist on the machine side are ignored.

To update a certain firmware only, select the firmware with the firmware display key.

\* If firmware's key is not selected, [EXECUTE] key is gray out and cannot be pressed.

 Press [EXECUTE] key. "ARE YOU SURE? [YES] [NO]" becomes clear. Press [YES] key to start the update of selected firemware.



The progress is displayed on right side of "FIRMWARE UPDATE" title by 20 steps.



At this time, only the progress gauge is displayed on the screen, and the version and the firmware selection key are not displayed.

If the update is normal completion, following screen is displayed.



Press [OK] key. (The machine is rebooted.)

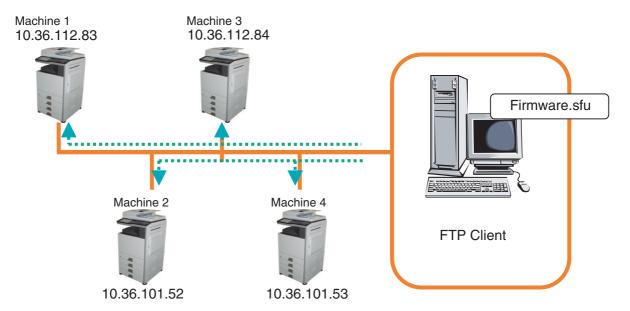
Go to SIM22-05 and confirm the firmware has upgraded successfully.

If the update is not normal completion, following screen is displayed.



#### B. Firmware update using FTP

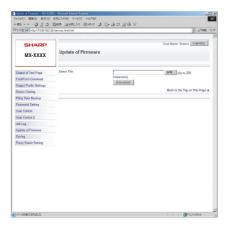
FTP software is used to transfer the firmware data (extension ".sfu") from the PC to the machine. The controller recognizes the firmware identifier and the machine automatically switches to firmware write mode. After the firmware is updated, the machine automatically resets.



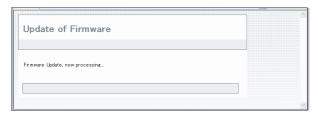
#### C. Firmware update using the Web page

An Web browser (service technician's Web page) is used to update the firmware.

- Start the Web browser on a PC and enter the specified URL. A special firmware upgrade page appears.
- Click the "Update of Firmware" key in the Web page. Click the [Browse] key and select the firmware for the update.



 After selecting the file, click the [Submit] key to send the firmware to the machine. Update processing begins. While processing takes place, "Firmware Update, now processing..." appears.



4) When the firmware update is finished, "Firmware Update completed. Please reboot the MFP." appears. Pressing the [Reboot] key, the machine will restart to complete the update. The browser will shift to the following screen.



"Close the browser and open again to display latest information." will be displayed.

5) Check the firmware version of machine again.

# D. Firmware update using the CN update function (There are three methods.)

#### (1) Outline

The update method using the DIP SW of the MFP PWB is called the CN update.

#### a. Function

There are the following three functions in the CN update mode.

#### 1) Firmware update function

This function is used to update the firmware by transferring data from the PC which is connected to the MFP PWB, the SCU PWB, the PCU PWB, the FAX PWB, and various options by means of a USB memory or USB cable.

This is basically the same as SIM49-01, but differs in the following points:

When the power is shut down or an abnormality occurs in a section other than the boot program for some reasons during firmware update operation of other method than the CN update, this method can be used to update the firmware.

If, however, an abnormality occurs in the boot program, the SD card must be replaced with a new one having the normal boot program.

If the boot animation is not displayed, there is an abnormality in the boot program.

If the boot animation is displayed but "Copying is enabled" is not displayed on the copier basic menu, there is an abnormality in the main program.

#### 2) Firmware version check function

(The method to check the firmware version by using SIM22-5 is easier than this method. Therefore, it is not described in this manual.)

#### 3) ROM making function

(This function is not used in the market, and not described in this manual.)

#### b. Purpose

This function is used in the following cases:

 When an error occurs during firmware update operation other than the CN update.

When the power is shut down or an error occurs in a section other than the boot program for some reasons during firmware update operation of other method than the CN update, this method can be used to update the firmware.

If, however, an abnormality occurs in the boot program, the SD card must be replaced with a new one having the normal boot program

If an error occurs in the boot program, this method cannot be used. In such a case, the SD card must be replaced with a new one having the normal boot program.

#### c. DIP-SW used in the CN update mode

To enter the CN update mode, turn ON the UPDATE DIP-SW on the MFP PWB and boot the machine.

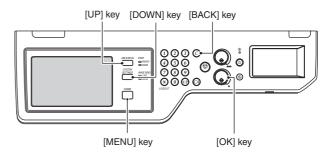
When terminating the CN update mode, reset UPDATE DIP-SW to OFF (normal mode).



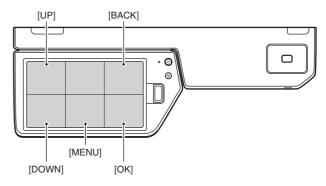
#### d. Keys used in the CN update mode

The following five keys are used for operations in the CN update mode. Be careful that the functions of the keys differ those in the normal mode.

#### · 18cpm/20cpm/23cpm/31cpm(G) machine



#### · 26cpm/36cpm/31cpm(A) machine



Key name	Functions in the CN update mode
[OK] key	Executes the selected function or item.
[MENU] key	Selects a menu.
[BACK] key	Selects a menu.
	(Serves as a cancel key in the execution check screen.)
[UP] key	Selects an item.
[DOWN] key	Selects an item.

#### (2) Operating procedures

#### a. Firmware update function

This function is used to revise the firmware by using the USB memory for the MFP PWB, the SCU PWB, the PCU PWB, the FAX PWB, and each option.

It is basically same as SIM 49-01, but differs in the following points.

- 1) The update target ROM is automatically selected.
- When the power is shut down or an abnormality occurs in a section other than the boot program for some reasons during firmware update operation of other method than the CN update.

If, however, an abnormality occurs in the boot program, this method cannot be used. On that case, the SD card must be replaced with a new one having the normal boot program.

When the boot animation is displayed but "Copying is enabled" is not displayed on the copier basic menu, there is an abnormality in the main program (SD card).

#### a-1. Necessary items

- 1) Insert the SD card to the MFP PWB of the machine.
- 2) USB memory with the firmware file (SFU) saved in it.

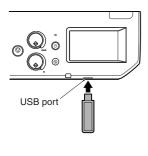


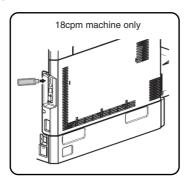
Save the firmware file in the main directory or in a one-level lower directory.

#### a-2. Procedures

- Turn OFF the power, and remove the cabinet and the MFP PWB cover.
- Turn ON the DIP SW of the MFP PWB UP DATE. (Tilt it to the PWB side.)
- 3) Install the USB memory into the USB port.

#### **USB** memory installing position





- 4) Turn ON the power.
- Check to confirm that the machine starts booting. (It takes more than ten seconds to display the menu.)

Update Program Init
Please wait

Version Check
Conf: 00050000

Display when booting is completed

6) Select the firmware update mode.

Select the update mode with [MENU] key and [BACK] key.

Firm Update From USB Memory

Display of the firmware update mode

#### 7) Press [OK] key.

The firmware file saved in the USB memory is retrieved, and the file selection menu is displayed.

Firm Update > F 0100P000.sfu

Display of file selection

8) Select the firmware file (SFU).

Select the target firmware file (SFU) with [UP] key and [DOWN] key.

When [OK] key is pressed with a directory name (the head: "> D") displayed, the menu goes to the one-stage lower directory. When [BACK] key is pressed in the lower-stage directory, the menu returns to the original upper directory.

9) Press [OK] key.

The selected firmware file (SFU) is read. It takes about one minute.

Firm Update Reading Data

Display of file reading

 After completion of reading, the firmware update process is continued.



Display of the firmware update process

- \* The abbreviated name of the firmware which is under update process is indicated on the right upper corner of the display.
- \* During the update process, the display may flash instantaneously. It is a normal operation.
- 11) Check the update result.

Use [UP] key and [DOWN] key to display the results of all the firmware programs.



Display of the firmware update result

OK: Update is completed successfully.

NG: Update is failed.

Not Update: Update is not executed.

- 12) Turn OFF the power.
- 13) Turn OFF the DIP SW of the MFP PWB UP DATE. (Set the DIP-SW to the normal mode.)
- 14) Turn ON the power, and check to confirm that the machine boots up normally.

Check to confirm that the boot animation is displayed.

Check to confirm that "Copying is enabled" is displayed on the copier basic menu.

- 15) Check to confirm the version of each firmware with SIM22-5.
- 16) Attach the MFP PWB cover and the cabinet.

### [8] MAINTENANCE

### 1. Works necessary when executing the maintenance

#### A. Counter check

Before execution of the maintenance, execute SIM22 to check the counter values of the following counters to confirm consuming states of each section.

- 1) Each consumable part counter
- 2) Each unit counter
- 3) Trouble counter, JAM counter

#### B. Counter reset

When a part or consumable part is replaced with new one in the maintenance, execute SIM24 to reset the following counters.

- 1) Maintenance counter
- 2) Each consumable part counter
- 3) Each unit counter
- 4) Trouble counter, JAM counter

#### C. Firmware version check and upgrading

Execute SIM22-5 to check the firmware version, and upgrade it as needed. (SIM49-1)  $\,$ 

#### D. Confirmation, adjustment

After completion of part replacement and cleaning, etc, execute the following procedures.

#### Items necessary to execute

		Item		SIM to be used
ADJ 5	Print engine image distortion adjustment / OPC drum phase adjustment / Color registration adjustment (Print engine section)	ADJ5A	Print engine image distortion adjustment (Manual adjustment) / OPC drum phase adjustment (Automatic adjustment) / Color registration adjustment (Automatic adjustment)	50-22
ADJ10/SET1	Image quality adjustment		Copy image quality adjustment	
			Printer image quality adjustment	
		ADJ10B	Printer, copy color balance, density adjustments (Automatic adjustments) (Basic adjustments)	46-74

#### Items to execute as needed

		Item		SIM to be used
ADJ 2	High voltage adjustment	ADJ2A	Main charger grid voltage adjustments	8-2
		ADJ2B	Developing bias voltage adjustments	8-1
		ADJ2C	Transfer current/voltage adjustment	8-6
ADJ 3	Image density sensor adjustment	ADJ3A	Image density sensor calibration	44-13
		ADJ3B	Image density sensor adjustment	44-2
ADJ4	Image lead edge position, image loss, void area, image off-center, image magnification	ADJ4A	Print image main scanning direction automatic magnification ratio adjustment (Print engine)	50-28
ratio adjustments (Auto	ratio adjustments (Automatic adjustments)	ADJ4B	Print image off-center automatic adjustment (Print engine) (Each paper feed tray)	50-28
		ADJ4C	Copy mode image lead edge position, image loss, void area, image off-center, sub scanning direction image magnification ratio automatic adjustment (Scanner) (Document table mode)	50-28
		ADJ4D	Copy mode image lead edge position, image loss, void area, image off-center, sub scanning direction image magnification ratio automatic adjustment (Scanner) (RSPF mode)	50-28
ADJ10/SET1	Image quality adjustment	ADJ10A	Scanner calibration (CCD calibration)	63-3 (63-5)

### 2. Display of maintenance execution timing

The message of maintenance execution timing is displayed when each counter reaches the set value. The relations between the messages and the counters are shown below.

#### A. Maintenance counter

		Display condition				
Display content	SIM26-38-A set value	Counter name	Counter value	Enable/ Disable		
Maintenance required. Code: TA	0 (Print continue)	Maintenance counter (Total)	When the SIM21-1 set value is reached.	Enable		
	1 (Print stop)		When 90% of the SIM21-1 set value is reached.			
Maintenance required. Code: TA	1 (Print stop)		When the SIM21-1 set value is reached.	Disable		
Maintenance required. Code: CA	0 (Print continue)	Maintenance counter (Color)	When the SIM21-1 set value is reached.	Enable		
	1 (Print stop)		When 90% of the SIM21-1 set value is reached.			
Maintenance required. Code: CA	1 (Print stop)		When the SIM21-1 set value is reached.	Disable		
Maintenance required. Code: AA	0 (Print continue)	Both of total and color	When the SIM21-1 set value is reached.	Enable		
	1 (Print stop)		When 90% of the SIM21-1 set value is reached.			
Maintenance required. Code: AA	1 (Print stop)		When the SIM21-1 set value is reached.	Disable		

<sup>\*</sup> After execution of maintenance, be sure to execute SIM24-4 to clear the maintenance counter (Total) and the maintenance counter (Color).

#### B. Primary transfer unit

		Display con	dition	Print JOB
Display content	SIM26-38-A set value	Counter name	Counter value	Enable/ Disable
Maintenance required.: TK1	0 (Print continue) 1 (Print stop)	Primary transfer unit print counter	18cpm machine: When 80K is reached. 20/23/26/31cpm machine: When 100K is reached. 36cpm machine: When 120K is reached.	Enable

<sup>\*</sup> After execution of the maintenance, execute SIM24-4 to clear the primary transfer unit print counter, the accumulated number of rotations counter, and the use day counter.

#### C. Secondary transfer unit

		Display cond	lition	Print JOB
Display content	SIM26-38-A set value	Counter name	Counter value	Enable/ Disable
Maintenance required.: TK2	0 (Print continue)	Secondary transfer unit print counter	18cpm machine:	Enable
	1 (Print stop)		When 240K is reached.	
			20/23/26/31cpm machine:	
			When 300K is reached.	
			36cpm machine:	
			When 360K is reached.	

<sup>\*</sup> After execution of the maintenance, execute SIM24-4 to clear the secondary transfer print counter, the accumulated number of rotations counter, and the use day counter.

#### D. Fusing unit

			Display condition		Print JOB
Display content	SIM26-38-A set value	SIM26-38-B set value	Counter name	Counter value	Enable/ Disable
Maintenance required.: FK1	0 (Print continue)	-	Fusing roller print counter	18/20/26/31cpm machine:	Enable
	1 (Print stop)		(18/20cpm machine)	(Excpet North America)	
			Fusing belt print counter (23/26/31/36cpm machine)	When 100K is reached.  23cpm machine:	
			(23/20/31/30Cpm machine)	When 100K is reached.	
				26/31cpm machine:	
				(North America)	
				When 200K is reached.	
				36cpm machine:	
				When 240K is reached.	
Maintenance required.: FK2	0 (Print continue)	-	Pressure roller print counter	18/20cpm machine:	Enable
	1 (Print stop)	-		When 100K is reached.	
				23/26/31cpm machine:	
				When 200K is reached.	
				36cpm machine:	
				When 240K is reached.	
Maintenance required.: FK3	-	0 (Print continue)	Fusing web print counter	When 120K is reached.	Enable
(36cpm machine only)	_	1 (Print stop)			
Maintenance required.: FK3 (Pop-up)	_	0 (Print continue)	Fusing web print counter	When Web end detection is ON.	Enable
(36cpm machine only)	_	1 (Print stop)			Disable

\* After execution of the maintenance, execute SIM24-4 to clear the fusing roller counter, the fusing belt counter, the fusing web print counter, the accumulated rotation number counter, and the use day counter.

#### E. OPC drum

		Display condition		Print JOB
Display content	SIM26-38-A set value	Counter name	Counter value	Enable/Disable
Maintenance required.: DK	0 (Print continue)	OPC drum print counter (K)	18cpm machine: When 80K is reached. 20/23/26/31cpm machine: When 100K is reached. 36cpm machine: When 120K is reached.	Enable
	1 (Print stop)	OPC drum accumulated rotation number counter (K)	When 840K is reached.	
Maintenance required.: D (C/M/Y)	0 (Print continue)	OPC drum print counter (C/M/Y)	18cpm machine: When 50K is reached. 20/23/26/31cpm machine: When 60K is reached. 36cpm machine: When 70K is reached.	
	1 (Print stop)	OPC drum accumulated rotation number counter (C/M/Y)	When 840K is reached.	

<sup>\*</sup> After execution of the maintenance, execute SIM24-4 to clear the OPC drum print counter, the accumulated number of rotations counter, and the use day counter.

#### F. Developer

		Display condition		Duint IOD
Display content	SIM26-38-A set value	Counter name	Counter value	Print JOB Enable/Disable
Maintenance required.: VK	0 (Print continue)	Developer print counter (K)	18cpm machine: When 80K is reached. 20/23/26/31cpm machine: When 100K is reached. 36cpm machine: When 120K is reached.	Enable
	1 (Print stop)	DV unit accumulated number of rotations (K)	When 840K is reached.	
Maintenance required.: V (C/M/Y)	0 (Print continue)	Developer print counter (C/M/Y)	18cpm machine: When 50K is reached. 20/23/26/31cpm machine: When 60K is reached. 36cpm machine: When 70K is reached.	
	1 (Print stop)	DV unit accumulated number of rotations (C/M/Y)	When 840K is reached.	1

<sup>\*</sup> After execution of the maintenance, execute SIM24-4 to clear the developer print counter, the accumulated number of rotations counter, and the use day counter.

#### G. Waste toner box

Display content	Display o	Print JOB	
Display content	Counter name	Counter value	Enable/Disable
Check the waste toner box.	After detection of near end, pixel cour	nt 836K	Near end: Enable
	(equivalent to color 2K, monochrome	End: Disable	

<sup>\*</sup> When the waste toner box is replaced with an empty one, the message disappears.

#### H. Toner

		Display condition		Print JOB
Display content	SIM26-38-A set value	Counter name	Counter value	Enable/Disable
(K/C/M/Y) Prepare a toner (Near near end)	No relation	Toner motor rotation time	Specified time of rotations	Enable
(K/C/M/Y) Toner supply is low (Near end)	No relation	Toner supply amount is decreasing.	ATC sensor output variation	Enable
Replace the toner cartridge. (K) (End)	0 (Print continue) 1 (Print stop)	The pixel count from near end reaches the specified value.	Specified pixel count	(Disable for a JOB which requires K toner)
Replace the toner cartridge. (C/M/Y) (End)	0 (Print continue) 1 (Print stop)	The pixel count from near end reaches the specified value.	Specified pixel count	Enable for monochrome, Disable for color

### 3. Maintenance list

#### Main unit (18cpm machine)

X: Check (Clean, replace, or adjust according to necessity.) O: Clean  $\blacktriangle$ : Replace  $\triangle$ : Adjust  $\diamondsuit$ : Lubricate

Section/Unit work sequence	Name	Unit name	Work sequence	Part name	When calling	80 k	160 k	240 k	320 k	400 k	480 k	Remark
Monochrome	Developing	Developing unit	1	Developer	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
consumable	section	(monochrome)	2	DV seal	×	×	×	×	×	×	×	Replace as needed.
			3	DV side seals F/R	×	×	X	×	×	×	×	Replace as needed.
			4	Toner filter	×	×	×	×	×	×	×	Replace as needed.
			5	Bias pin	×	×	×	×	×	×	×	
			6	Connector	×	×	×	×	×	×	×	
	OPC drum	OPC drum unit	1	Drum	×	<b>A</b>	<b>A</b>	•	•	•	•	
	section		2	Cleaning blade	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
			3	Toner reception blade	×	•	•	•	•	•	•	
			4	Side seals F/R	×	×	×	×	×	×	×	
			5	Charger cleaner	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Integrated as a drum kit.

Section/Unit work sequence	Name	Unit name	Work sequence	Part name	When calling	50 k	100 k	150 k	200 k	250 k	300 k	Remark
Color	Developing	Developing unit	1	Developer	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
consumable	section	(color)	2	DV seal	×	×	×	×	×	×	×	Replace as needed.
			3	DV side seals F/R	×	×	X	×	×	×	×	Replace as needed.
			4	Toner filter	×	×	×	×	×	×	×	Replace as needed.
			5	Bias pin	×	×	×	×	×	×	×	
			6	Connector	×	×	X	×	×	×	×	
	OPC drum	OPC drum unit	1	Drum	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
	section		2	Cleaning blade	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
			3	Toner reception blade	×	<b>A</b>	<b>A</b>	•	•	•	•	
			4	Side seals F/R	×	×	×	×	×	×	×	
			5	Charger cleaner	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Integrated as a drum kit.

Section/Unit work sequence	Name	Unit name	Work sequence	Part name	When calling	80 k	160 k	240 k	320 k	400 k	480 k	Remark
1	RPSF	RSPF unit	1	Document pickup	0	0	0	0	0	0	0	Replace at 80K of the
	section			roller								SPF paper feed counter or
			2	Paper feed rooller	0	0	0	0	0	0	0	1 year of use.
			3	Separation roller	0	0	0	0	0	0	0	When replacing the paper feed roller, apply grease to
												the paper feed shaft.
												GP-501MR
												(UKOG-0013QSZZ)
			4	Torque limiter SPF	×	×	×	×	×	×	×	Replacement reference:
			5	Take-up torque	×	×	×	×	×	×	×	Replace referring to the
				limiter								paper feed counter value.
												SPF section torque limiter: Replace at 400K or
												2 years of use.
			6	Discange brush	×	×	×	×	×	×	×	
			7	Registration roller	0	0	0	0	0	0	0	
			8	Transport roller 2	0	0	0	0	0	0	0	
			9	Transport roller 3	0	0	0	0	0	0	0	
			10	Paper exit roller	0	0	0	0	0	0	0	
			11	Sensors	×	×	×	×	×	×	×	
			12	Scan plate	0	0	0	0	0	0	0	
			13	Gears	×	×	×	×	×	×	×	
			14	Belts	×	×	×	×	×	×	×	
_			15	OC mat	0	0	0	0	0	0	0	
2	Scanner	Scanner unit	1	Drive belt	×	X	X	×	X	X	X	
	section		2	Drive wire	×	X	×	×	×	×	X	
			3	Sensors	×	×	×	×	×	×	×	
			5	Rails Mirror	☆ O	O N	☆ O	☆ O	☆ O	☆ O	☆ O	
			6	Reflector	0	0	0	0	0	0	0	
			7	Scanner lamp	0	0	0	0	0	0	0	
			8	Lens	0	0	0	0	0	0	0	
			9	CCD	0	0	0	0	0	0	0	
			10	Table glass	0	0	0	0	0	0	0	
			11	SPF glass	0	0	0	0	0	0	0	

Section/Unit work sequence	Name	Unit name	Work sequence	Part name	When calling	80 k	160 k	240 k	320 k	400 k	480 k	Remark
3	Transfer	Primary	1	Separation pawl	-	×	×	×	×	×	×	Replace as needed.
	section	transfer unit	2	Primary transfer belt	-	•	•	<b>A</b>	•	•	<b>A</b>	When replacing, apply KYNAR powder.
			3	Secondary drive transmission gear	-	0	0	0	0	0	0	
			5	Primary transfer belt drive roller Primary transfer belt	_	0	0	0	0	0	0	
			6	follower roller  Primary transfer belt	_	0	0	0	0	0	0	
			7	tension roller  Registration backup	_	0	0	0	0	0	0	
			8	roller Y auxiliary roller	_	0	0	0	0	0	0	
			9	PTC backup roller	_	0	0	0	0	0	0	
			10	Primary transfer roller	_	×	×	×	×	×	×	Replace as needed.
			11	Transfer cleaner seals F/R	-	×	×	×	×	×	×	Replace as needed.
			12	Primary transfer belt cleaner blade	-	•	•	•	•	•	•	
			13	Primary transfer toner reception blade	_	×	×	×	×	×	×	Replace as needed.
			14	Primary transfer operation mode detector	_	0	0	0	0	0	0	
4	Transfer section	Secondary transfer unit	1	Secondary transfer belt follower roller	-	-	-	0	-	-	0	
			2	Secondary transfer belt	_	-	-	•	_	-	•	Never use alcohol or solvents for cleaning
			3	Secondary transfer belt drive roller	-	-	-	0	-	-	0	
			4	Secondary transfer backup roller	-	_	-	0	_	-	0	
			5	Secondary transfer belt tension roller Secondary transfer	_	_	_	O ×	_	_	O ×	Replace as needed.
			7	roller Secondary transfer	_	_	_	×	_	_	×	Replace as needed.
			8	drive gear Separation cam			_	☆	_	_	☆	When replacing, apply
				·								UKOG-0299FCZZ to the shaft section.
			9	Secondary transfer frame	_	_	_	☆	_	_	☆	When replacing, apply UKOG-0299FCZZ to the shaft section.
5		Other	1	PTC unit	0	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
6	I SII sastion	1911	2	Image density sensor/Registration sensor/ Standard reflection plate	-	0	0	0	0	0	0	Remove dirt from the light emitting/receiving sections (transparent plastic sections) of the sensor and the standard reflection plate (gray plastic section) with dry waste cloth. *1
б	LSU section	LSU	1	Dust-proof glass	0	0	0	0	0	0	0	Use the LSU cleaning rod.
		Other	2	Cleaning base	×		b	ox is re	ne the v	d.	ı	Attached to the waste toner box. (2 pcs.) / Replace when the waste toner box is replaced, or at 100K, or 2 years of use.
7	Manual paper feed section	Manual paper feed unit	1	Paper feed roller	×	0	0	0	0	0	0	Replace at 80K of each paper feed counter or after 2-year use.
			2	Separation roller	×	0	0	0	0	0	0	Replace at 80K of each paper feed counter or after 3-year use.
			3	Torque limiter	×	×	×	×	×	×	×	
			4	Transport roller 9	×	0	0	0	0	0	0	
			5	Sensors	×	×	×	×	×	×	×	
			-	Paper guides	0	0	0	0	0	0	0	

Section/Unit work sequence	Name	Unit name	Work sequence	Part name	When calling	80 k	160 k	240 k	320 k	400 k	480 k	Remark
8	Tray paper feed section	Tray paper feed unit	1	Paper pickup roller	×	0	0	0	0	0	0	Replace at 80K of each paper feed counter or after 1-year use
			2	Paper feed roller	×	0	0	0	0	0	0	Replace at 80K of each paper feed counter or after 2-year use
			3	Separation roller	×	0	0	0	0	0	0	Replace at 80K of each paper feed counter or after 3-year use
			4	Transport roller 4	×	0	0	0	0	0	0	unter o your doo
			5	Transport roller 2	×	0	0	0	0	0	0	
			6 7	Torque limiter	X	×	×	×	×	×	×	
				Sensors Paper guides	X 0	X 0	X 0	X 0	X 0	X 0	× 0	
9	Paper registration	PS unit	1	Registration roller (Idle)	×	0	0	0	0	0	0	
	section (paper		2	Registration roller (drive)	×	0	0	0	0	0	0	
	transport section)/		3	Transport roller 5	×	0	0	0	0	0	0	
	Paper exit	Right door unit	4 5	Sensors Transport roller 7	×	0	0	0	0	0	0	
	section/	Right door drift	6	Transport roller 8	×	0	0	0	0	0	0	
	ADU section		7	Sensors								
		Fusing rear unit	8	Transport roller 6	×	0	0	0	0	0	0	
		Paper exit unit	9 10	Paper exit roller 1	×	0 X	O X	0 X	0 X	O X	0 X	
			11	Discharge brush Sensors	×	×	×	×	×	×	×	
		Other	12	Paper dust removing unit	0	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
			_	Paper guides	0	0	0	0	0	0	0	
10	Drive section	Main drive unit	2	Gears (grease) Shafts (grease)	×	×	×	×	×	×	×	Apply to the specified position when checking. FLOIL G-313S
			3	Shaft earth sections (conduction grease)	×	×	×	×	×	×	×	Apply to the specified position when checking. FLOIL GE-676
			4	Belts	×	×	×	×	×	×	×	
		Transport drive	5 6	Sensors Belts	×	×	X	×	×	×	×	
		Transport drive unit	7	Connection arm	×	×	×	×	×	×	×	Apply to the specified
			8	Shafts (grease)	×	×	×	×	×	×	×	position when checking.
		Fusing drive unit	9	Shafts (grease)	×	×	×	×	×	×	×	HANARL FL-955R
		Paper exit drive unit	10	Shafts (grease)	×	X	×	×	X	×	×	
11	Fusing section	Fusing unit	11	Belts Lower separation pawl	×	×	×	×	×	×	×	Replace as needed.
	occus		2	Lower separation pawl spring	×	×	×	×	×	×	×	Replace as needed.
			3	Separation plate	X	×	×	×	×	×	×	Replace as needed.
			4 5	Oil applying roller  Backup roller	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
			6	CL roller bearing	×	<u> </u>	<u> </u>	_	_	<u> </u>	<u> </u>	
			7	Lower thermistor	×	×	×	×	×	×	×	Replace as needed.
			8	Pressure roller gear	X	×	×	×	×	×	X	Replace as needed.
			9	Pressure roller bearing	×	×	×	×	×	×	×	Replace as needed.
			10	Pressure roller	×	•	•	•	•	•	•	Apply grease to the shaft section when replacing. (UKOG-0235FCZZ)
			11	Sub thermistor	X	×	×	×	×	×	X	Replace as needed.
			12 13	Heat-insulating bush Heating roller bearing	×	×	×	×	×	×	×	Replace as needed.  Replace as needed.
			14	Fusing roller	×	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Apply grease to the shaft section when replacing. (UKOG-0235FCZZ)
			15	Main thermistor	×	×	×	×	×	×	×	Replace as needed.
			16	Paper guides	0	0	0	0	0	0	0	
			17 18	Gears Lower scraper	×	×	×	×	×	×	×	
			10	assembly	_ ^						•	